

Status Report

Total Records: 4553

Top 3 County Records		Top 3 Log Type Records		Top 3 Coal Records		Top 3 Member Records	
Fulton	4553	Drillers Log	4531	SPRINGFIELD	1991	SPRINGFIELD COAL	1991
		Survey Core Study	9	HERRIN	1231	TURNER MINE BLACK SHALE	1325
		Survey Sample Study	2	COLCHESTER	633	HERRIN COAL	1231

Data Summary

Cross-tabulation of all selected logs, individual logs will vary.

Tabulation of logged intervals only, individual logs will vary.

Depth and Thickness measurements in feet

Member	Lithology	Avg. Depth	Min. Depth	Max. Depth	Avg. Thk	Min. Thk	Max. Thk
PIASA	LIMESTONE	17.1	17.1	17.1	0.2	0.2	0.2
FARMINGTON	SHALE	31.3	4.4	66.5	21.4	1.0	53.5
DANVILLE	COAL	44.3	7.1	86.0	1.4	0.3	3.0
COPPERAS CREEK	SANDSTONE	86.3	78.7	92.5	7.1	2.0	14.5
LAWSON	SHALE	74.7	30.0	107.0	13.3	6.1	24.0
BRERETON	LIMESTONE	51.8	7.3	124.0	2.5	0.2	10.0
ANNA	SHALE	52.9	7.9	114.5	1.4	0.2	8.0
ENERGY	SHALE	52.5	27.1	96.4	4.4	0.2	12.4
HERRIN	COAL	53.5	2.0	133.8	3.5	0.2	13.6
BIG CREEK	SANDSTONE	29.3	17.0	51.6	18.5	5.0	26.0
VERMILIONVILLE	SANDSTONE	32.3	3.7	69.4	17.1	0.6	48.3
CANTON	SHALE	28.6	9.0	117.5	20.5	0.5	57.5
ST. DAVID	LIMESTONE	73.6	8.0	186.8	0.8	0.1	21.0
TURNER MINE	SHALE	67.4	4.0	187.8	2.2	0.1	12.5
SPRINGFIELD	COAL	66.0	2.7	189.6	3.9	0.0	14.0
HANOVER	LIMESTONE	62.0	31.0	93.0	1.6	1.0	2.2
EXCELLO	SHALE	34.2	25.0	44.5	2.6	1.0	4.0
HOUCHIN CREEK	COAL	59.5	13.2	200.0	1.9	0.3	5.2
BREEZY HILL	LIMESTONE	23.5	23.5	23.5	1.7	1.7	1.7
KERTON CREEK	COAL	34.0	30.5	36.8	2.2	0.9	4.6
PLEASANTVIEW	SANDSTONE	40.8	10.0	84.0	13.0	1.0	38.5
PURINGTON	SHALE	39.7	12.0	139.2	18.6	2.0	85.0
LOWELL	COAL	85.6	19.5	226.0	1.5	0.5	3.0
OAK GROVE	LIMESTONE	85.0	10.5	247.0	5.1	0.3	43.3
MECCA QUARRY	SHALE	82.3	14.0	275.0	2.5	0.5	16.0
JAKE CREEK	SANDSTONE	54.0	14.7	108.9	11.5	2.0	40.7
FRANCIS CREEK	SANDSTONE	49.5	9.0	183.0	20.6	0.1	58.9
COLCHESTER	COAL	77.1	5.5	320.0	2.3	0.4	16.8
BROWNING	SANDSTONE	85.2	30.0	200.0	5.5	1.2	12.3
ABINGDON	COAL	79.0	30.0	164.0	1.5	1.0	2.1

ISABEL	SANDSTONE	77.2	26.8	180.5	4.6	1.4	12.0
GREENBUSH	COAL	60.9	38.2	192.0	0.8	0.3	1.5
WILEY	COAL	98.5	16.0	252.0	1.3	0.2	10.0
SEAHORNE LS	LIMESTONE	129.4	51.8	222.4	1.4	0.5	3.0
DELONG	COAL	112.2	30.0	243.0	1.6	0.1	6.0
GRANGER	SANDSTONE	260.0	260.0	260.0	4.0	4.0	4.0
HERMON	COAL	163.5	48.9	307.0	1.8	0.3	4.3
SEVILLE	LIMESTONE	137.5	27.9	272.0	8.0	0.3	30.0
ROCK ISLAND	COAL	119.9	14.0	385.0	2.5	0.1	12.5
BERNADOTTE	SANDSTONE	181.3	40.0	396.0	10.1	0.7	28.1
POPE CREEK	COAL	139.7	45.0	238.3	1.9	0.3	6.0
TARTER	COAL	154.4	66.0	249.3	2.6	0.3	5.5
MANLEY	COAL	235.6	86.0	283.1	1.0	0.3	2.2
BABYLON	SANDSTONE	255.2	255.2	255.2	0.2	0.2	0.2
				Net Coal	31.4		

Coal Logs

This report contains non-confidential coal log descriptions from the Coal Section's stratigraphic database in the county listed. Coal logs are sorted by township/range and section. For each log, North American Datum 1983 (NAD83) Longitude/Latitude coordinates in decimal degrees are provided as well as a legal description which uses the Public Land Survey System (PLSS). The following are two examples of coal log locations:

**Example location 1: COUNTY: SALINE TWP/RNG: 7S 5E SECTION: 19 QUARTERS/FOOTAGES: 330'S line, 330'W line of SE NE
LONGITUDE: -88.691911 LATITUDE: 37.900435**

This log is from a borehole located in Saline County, Township 7 South, Range 5 East, 330 feet from the south line and 330 feet from the west line of the southeast quarter of the northeast quarter of section 19.

**Example location 2: COUNTY: SALINE TWP/RNG: 9S 5E SECTION: 36 QUARTERS/FOOTAGES: 530'N, 530'W, SE/c NE NW
LONGITUDE: -88.60834 LATITUDE: 37.700006**

This log is from a borehole located in Saline County, Township 9 South, Range 5 East, 530 feet north and 530 feet west of the southeast corner of the northeast quarter of the northwest quarter of section 36.

Beneath the header is geology information for that data point. The Coal Section stratigraphic database from which this .PDF file is derived is a multi-project database which contains drill hole and outcrop descriptions of Pennsylvanian stratigraphy in Illinois. Consequently, the level of detail and accuracy in the data and their interpretation vary (sometimes widely) with the geologist, project type, or original data source. Multiple descriptions of a particular location may be present. Note that both the coal stratigraphic database and this .PDF listing are only a subset of the total amount of data available from the ISGS Geologic Records Library archives, and reflect only coal-specific data and interpretations of past and present Coal Section geologists. They are not a comprehensive listing of all data that may be available from the ISGS.

MAPID: 05786583000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: FULTON **TWP/RNG:** 3N 1E **SECTION:** 2 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SW SW
QUADRANGLE: IPAVA **LONGITUDE:** -90.373405 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.262427 **DATE COLLECTED:** 6 / 13 / 1963
SURFACE ELEVATION (FT.): 582.9 **LOGGED (FT.):** 26.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE S409A **WELL TYPE:** Coal Test
COMMENT: SE VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
582.9	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0
578.9	PLEISTOCENE		CLAY	7.0	4.0
571.9	PLEISTOCENE		CLAY	5.0	11.0
566.9	CARBONDALE		SHALE	6.0	16.0 SOFT
560.9	CARBONDALE	COLCHESTER	COAL	2.3	22.0 GOOD
558.6	CARBONDALE		UNDERCLAY	1.8	24.3

MAPID: 05786563000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 4 QUARTERS/FOOTAGES: 330' N line, 990' W line of NE NW
 QUADRANGLE: VERMONT LONGITUDE: -90.403805 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.275029 DATE COLLECTED: 6 / 14 / 1961
 SURFACE ELEVATION (FT.): 636.4 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE K595A WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
636.4	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
630.4	PLEISTOCENE		CLAY	10.0	6.0	
620.4	PLEISTOCENE		CLAY	50.0	16.0	
570.4	CARBONDALE		DARK SHALE	8.0	66.0	GOOD
562.4	CARBONDALE	COLCHESTER	COAL	2.1	74.0	GOOD
560.3	CARBONDALE	COLCHESTER	COAL W/ BLACK SHALE	0.3	76.1	
560.1	CARBONDALE		UNDERCLAY	1.7	76.3	

MAPID: 05786565000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 5 QUARTERS/FOOTAGES: 1' N line, 660' W line of NW NW
 QUADRANGLE: VERMONT LONGITUDE: -90.428701 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.276117 DATE COLLECTED: 8 / 15 / 1960
 SURFACE ELEVATION (FT.): 684.4 LOGGED (FT.): 123.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE K610 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.4	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
673.4	PLEISTOCENE		CLAY	18.0	11.0	
655.4	PLEISTOCENE		CLAY	40.0	29.0	
615.4	CARBONDALE		SANDY SHALE	50.0	69.0	
565.4	CARBONDALE	COLCHESTER	COAL	2.3	119.0	GOOD
563.1	CARBONDALE		UNDERCLAY	1.7	121.3	

MAPID: 05786788000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 5 QUARTERS/FOOTAGES: 0' S line, 660' W line of NE NE
 QUADRANGLE: VERMONT LONGITUDE: -90.414564 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.272325 DATE COLLECTED: 8 / 16 / 1960
 SURFACE ELEVATION (FT.): 649.9 LOGGED (FT.): 92.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE K616 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.9	PLEISTOCENE		CLAY	25.0	0.0	
624.9	PLEISTOCENE		CLAY	20.0	25.0	
604.9	PLEISTOCENE		CLAY	35.0	45.0	
569.9	CARBONDALE		SHALE	8.0	80.0	SOFT
561.9	CARBONDALE	COLCHESTER	COAL	2.3	88.0	GOOD
559.6	CARBONDALE		UNDERCLAY	1.7	90.3	

MAPID: 05786803000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 5 QUARTERS/FOOTAGES: 10' S line, 1320' E line of SW SE
 QUADRANGLE: VERMONT LONGITUDE: -90.421943 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.261243 DATE COLLECTED: 8 / 17 / 1982
 SURFACE ELEVATION (FT.): 664.0 LOGGED (FT.): 117.0 LOG TYPE: Drillers Log
 SOURCE: AMAX K413 WELL TYPE: Coal Test
 COMMENT: SUNSPOT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.0	PLEISTOCENE		CLAY	4.0	0.0	
660.0	PLEISTOCENE		UNCONSOLIDATED	20.0	4.0	BROWN
640.0	PLEISTOCENE		UNCONSOLIDATED	31.0	24.0	GRAY
609.0	CARBONDALE		DARK SHALE	49.9	55.0	
559.1	CARBONDALE	COLCHESTER	COAL	2.1	104.9	
557.0	CARBONDALE		UNDERCLAY	2.2	107.0	
554.8	CARBONDALE		SANDY SHALE	7.8	109.2	

MAPID: 05724691000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: VERMONT LONGITUDE: -90.431097 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.270753 DATE COLLECTED: 8 / 11 / 1976

SURFACE ELEVATION (FT.): 663.0 LOGGED (FT.): 113.0 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. K534J WELL TYPE: Coal Test

COMMENT: PERMIT 26; SUNSPOT MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
663.0	PLEISTOCENE		SILT	3.0	0.0
660.0	PLEISTOCENE		CLAY	14.5	3.0
645.5	PLEISTOCENE		UNCONSOLIDATED	34.5	17.5
611.0	CARBONDALE	FRANCIS CREEK	SANDY SHALE	51.0	52.0
560.0	CARBONDALE	FRANCIS CREEK	GRAY SHALE	1.0	103.0
559.0	CARBONDALE	COLCHESTER	COAL	2.6	104.0
556.4	CARBONDALE		UNDERCLAY	1.4	106.6
555.0	CARBONDALE		CALCAREOUS SHALE	5.0	108.0

MAPID: 05786564000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 6 QUARTERS/FOOTAGES: 1' N line, 625' W line of NW NW

QUADRANGLE: VERMONT LONGITUDE: -90.44796 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.276263 DATE COLLECTED: 8 / 31 / 1963

SURFACE ELEVATION (FT.): 634.8 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE K602 WELL TYPE: Coal Test

COMMENT: SW VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
634.8	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0
626.8	PLEISTOCENE		CLAY	20.0	8.0
606.8	CARBONDALE		DARK SHALE	9.0	28.0 SOFT
597.8	CARBONDALE		DARK SHALE	19.0	37.0
578.8	CARBONDALE	COLCHESTER	COAL	2.3	56.0 GOOD
576.5	CARBONDALE		UNDERCLAY	1.8	58.3

MAPID: 05786787000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 6 QUARTERS/FOOTAGES: 0' S line, 660' E line of NE NE

QUADRANGLE: VERMONT LONGITUDE: -90.433504 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.272415 DATE COLLECTED: 8 / 9 / 1972

SURFACE ELEVATION (FT.): 679.2 LOGGED (FT.): 178.0 LOG TYPE: Drillers Log

SOURCE: AMAX K608 WELL TYPE: Coal Test

COMMENT: SUNSPOT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
679.2	PLEISTOCENE		CLAY	19.0	0.0
660.2	PLEISTOCENE		CLAY	2.0	19.0
658.2	PLEISTOCENE		SAND & GRAVEL	11.0	21.0
647.2	PLEISTOCENE		CLAY	27.0	32.0
620.2	CARBONDALE		GRAY SHALE	51.5	59.0
568.7	CARBONDALE	COLCHESTER	COAL	2.1	110.5
566.6	CARBONDALE		GRAY SHALE	12.4	112.6
554.2	CARBONDALE		LIMESTONE	3.8	125.0
550.4	TRADEWATER		GRAY SHALE	23.8	128.8
526.7	TRADEWATER	ROCK ISLAND	COAL	0.6	152.5
526.1	TRADEWATER		GRAY SHALE	24.9	153.1

MAPID: 05786802000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 6 QUARTERS/FOOTAGES: 0' N line, 660' W line of SW SW

QUADRANGLE: VERMONT LONGITUDE: -90.448097 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.265176 DATE COLLECTED: 8 / 20 / 1963

SURFACE ELEVATION (FT.): 638.7 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE K402 WELL TYPE: Coal Test

COMMENT: SW VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
638.7	PLEISTOCENE		CLAY	8.0	0.0
630.7	PLEISTOCENE		CLAY	8.0	8.0
622.7	PLEISTOCENE		CLAY	6.0	16.0
616.7	CARBONDALE		SANDY SHALE	55.0	22.0
561.7	CARBONDALE	COLCHESTER	COAL	2.3	77.0 GOOD
559.4	CARBONDALE		UNDERCLAY	1.8	79.3

MAPID: 05786571000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 7 QUARTERS/FOOTAGES: 1' S line, 130' E line of NW NW
 QUADRANGLE: VERMONT LONGITUDE: -90.446265 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.257864 DATE COLLECTED: 6 / 23 / 1964
 SURFACE ELEVATION (FT.): 622.3 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE K352P WELL TYPE: Coal Test
 COMMENT: SW VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.3	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0	
618.3	PLEISTOCENE		CLAY	6.0	4.0	
612.3	PLEISTOCENE		CLAY	14.0	10.0	
598.3	CARBONDALE		GRAY SHALE	37.0	24.0	
561.3	CARBONDALE	COLCHESTER	COAL	2.6	61.0	GOOD
558.7	CARBONDALE		UNDERCLAY	1.4	63.6	

MAPID: 05786797000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 7 QUARTERS/FOOTAGES: 42' S line, 565' E line of SW SE
 QUADRANGLE: RAY LONGITUDE: -90.438411 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.247026 DATE COLLECTED: 4 / 13 / 1972
 SURFACE ELEVATION (FT.): 589.9 LOGGED (FT.): 26.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE K204 WELL TYPE: Coal Test
 COMMENT: SW VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
589.9	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
582.9	CARBONDALE		GRAY SHALE	15.0	7.0	
567.9	CARBONDALE	COLCHESTER	COAL	2.3	22.0	
565.6	CARBONDALE		UNDERCLAY	1.7	24.3	

MAPID: 05786799000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 7 QUARTERS/FOOTAGES: 0' S line, 660' E line of NW SW
 QUADRANGLE: VERMONT LONGITUDE: -90.448268 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.250762 DATE COLLECTED: 1 / 18 / 1964
 SURFACE ELEVATION (FT.): 605.7 LOGGED (FT.): 45.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE K302 WELL TYPE: Coal Test
 COMMENT: SW VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
605.7	PLEISTOCENE		CLAY	2.0	0.0	
603.7	CARBONDALE		SANDY SHALE	21.0	2.0	HARD
582.7	CARBONDALE		DARK SHALE	18.0	23.0	SOFT
564.7	CARBONDALE	COLCHESTER	COAL	2.3	41.0	GOOD
562.4	CARBONDALE		UNDERCLAY	1.8	43.3	

MAPID: 0578680000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 7 QUARTERS/FOOTAGES: 60' S line, 20' E line of SW NW NE
 QUADRANGLE: VERMONT LONGITUDE: -90.438665 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.257856 DATE COLLECTED: 12 / 19 / 1974
 SURFACE ELEVATION (FT.): 609.5 LOGGED (FT.): 62.0 LOG TYPE: Drillers Log
 SOURCE: AMAX K356 WELL TYPE: Coal Test
 COMMENT: SW SUNSPOT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
609.5	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0
605.5	CARBONDALE		DARK SHALE	47.2	4.0
558.3	CARBONDALE	COLCHESTER	COAL	2.4	51.2
555.9	CARBONDALE		UNDERCLAY	2.4	53.6
553.5	CARBONDALE		GRAY SHALE	4.0	56.0
549.5	CARBONDALE		LIMESTONE	2.0	60.0

MAPID: 05786575000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 8 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SW
 QUADRANGLE: RAY LONGITUDE: -90.431604 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.246704 DATE COLLECTED: 5 / 6 / 1959
 SURFACE ELEVATION (FT.): 630.3 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE K209 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
630.3	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0
624.3	PLEISTOCENE		CLAY	39.0	6.0
585.3	CARBONDALE		SHALE	20.0	45.0 BLUE
565.3	CARBONDALE	COLCHESTER	COAL	2.2	65.0 FAIR
563.1	CARBONDALE		UNDERCLAY	2.8	67.2
560.3	CARBONDALE		SANDY SHALE	9.0	70.0
551.3	CARBONDALE		LIMESTONE	2.0	79.0

MAPID: 05786798000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 3N 1E **SECTION:** 8 **QUARTERS/FOOTAGES:** SE SE
QUADRANGLE: RAY **LONGITUDE:** -90.414904 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.248603 **DATE COLLECTED:** 12 / 26 / 1961
SURFACE ELEVATION (FT.): 663.5 **LOGGED (FT.):** 108.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE K217 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.5	PLEISTOCENE		CLAY	9.0	0.0	
654.5	PLEISTOCENE		CLAY	12.0	9.0	
642.5	PLEISTOCENE		CLAY	14.0	21.0	
628.5	CARBONDALE		DARK SHALE	69.0	35.0	HARD
559.5	CARBONDALE	COLCHESTER	COAL	2.2	104.0	GOOD
557.3	CARBONDALE		UNDERCLAY	1.8	106.2	

MAPID: 05786801000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 3N 1E **SECTION:** 8 **QUARTERS/FOOTAGES:** 660' N line, 650' E line of NW NE
QUADRANGLE: VERMONT **LONGITUDE:** -90.419552 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.259424 **DATE COLLECTED:** 8 / 18 / 1982
SURFACE ELEVATION (FT.): 656.8 **LOGGED (FT.):** 106.0 **LOG TYPE:** Drillers Log
SOURCE: AMAX K389 **WELL TYPE:** Coal Test
COMMENT: SUNSPOT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
656.8	PLEISTOCENE		SILT	1.0	0.0	
655.8	PLEISTOCENE		CLAY	9.0	1.0	
646.8	PLEISTOCENE		UNCONSOLIDATED	31.0	10.0	
615.8	PLEISTOCENE		SAND & GRAVEL	4.0	41.0	
611.8	CARBONDALE		SANDY SHALE	15.0	45.0	
596.8	CARBONDALE		SANDSTONE	4.0	60.0	
592.8	CARBONDALE		GRAY SHALE	31.5	64.0	
561.3	CARBONDALE	COLCHESTER	COAL	2.6	95.5	
558.7	CARBONDALE		UNDERCLAY	0.9	98.1	
557.8	CARBONDALE		SANDY SHALE	7.0	99.0	

MAPID: 05786570000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 9 QUARTERS/FOOTAGES: 660' N line, 1' W line of SW NW

QUADRANGLE: VERMONT LONGITUDE: -90.412514 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.255849 DATE COLLECTED: 2 / 11 / 1966

SURFACE ELEVATION (FT.): 649.9 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE K342 WELL TYPE: Coal Test

COMMENT: SE VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.9	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
642.9	PLEISTOCENE		CLAY	11.0	7.0	
631.9	PLEISTOCENE		CLAY	26.0	18.0	
605.9	CARBONDALE		SANDY SHALE	25.0	44.0	
580.9	CARBONDALE		GRAY SHALE	26.0	69.0	
554.9	CARBONDALE	COLCHESTER	COAL	2.3	95.0	GOOD
552.6	CARBONDALE		UNDERCLAY	2.8	97.3	

MAPID: 05786584000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 11 QUARTERS/FOOTAGES: 30' N line, 365' E line of NW NE

QUADRANGLE: IPAVA LONGITUDE: -90.36137 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.261284 DATE COLLECTED: 5 / 25 / 1962

SURFACE ELEVATION (FT.): 574.8 LOGGED (FT.): 31.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE S414B WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
574.8	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
567.8	PLEISTOCENE		CLAY	12.0	7.0	
555.8	CARBONDALE		SHALE	8.0	19.0	SOFT
547.8	CARBONDALE	COLCHESTER	COAL	2.2	27.0	GOOD
545.6	CARBONDALE	COLCHESTER	COAL	0.4	29.2	SOFT
545.2	CARBONDALE		UNDERCLAY	1.4	29.6	

MAPID: 05786902000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 14 QUARTERS/FOOTAGES: 0' N line, 65' E line of SW SE

QUADRANGLE: ASTORIA LONGITUDE: -90.360814 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.235768 DATE COLLECTED: 8 / 1 / 1963

SURFACE ELEVATION (FT.): 692.7 LOGGED (FT.): 64.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 515 WELL TYPE: Coal Test

COMMENT: SE VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
692.7	PLEISTOCENE		CLAY	10.0	0.0	
682.7	PLEISTOCENE		CLAY	28.0	10.0	
654.7	PLEISTOCENE		CLAY	14.0	38.0	
640.7	CARBONDALE		DARK SHALE	2.0	52.0	HARD
638.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	54.0	
636.7	CARBONDALE	SPRINGFIELD	COAL	6.1	56.0	GOOD
630.6	CARBONDALE		UNDERCLAY	1.9	62.1	

MAPID: 05786904000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 14 QUARTERS/FOOTAGES: 0' S line, 330' W line of NE SE

QUADRANGLE: ASTORIA LONGITUDE: -90.359398 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.235756 DATE COLLECTED: 8 / 1 / 1963

SURFACE ELEVATION (FT.): 667.0 LOGGED (FT.): 126.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE S115B WELL TYPE: Coal Test

COMMENT: SE VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.0	PLEISTOCENE		CLAY	14.0	0.0	
653.0	PLEISTOCENE		CLAY	15.0	14.0	
638.0	PLEISTOCENE		SAND & GRAVEL	14.0	29.0	
624.0	CARBONDALE		SANDY SHALE	67.0	43.0	HARD
557.0	CARBONDALE		SANDY SHALE	12.0	110.0	SOFT
545.0	CARBONDALE	COLCHESTER	COAL	2.3	122.0	GOOD
542.7	CARBONDALE		UNDERCLAY	1.7	124.3	

MAPID: 05786906000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 14 QUARTERS/FOOTAGES: SW SW

QUADRANGLE: ASTORIA LONGITUDE: -90.372721 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.234033 DATE COLLECTED: 6 / 27 / 1974

SURFACE ELEVATION (FT.): 670.5 LOGGED (FT.): 188.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE S61 WELL TYPE: Coal Test

COMMENT: BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.5	PLEISTOCENE		UNCONSOLIDATED	30.0	0.0	
640.5	PLEISTOCENE		CLAY	26.0	30.0	
614.5	CARBONDALE		SHALE	71.0	56.0	
543.5	CARBONDALE		SANDSTONE	6.0	127.0	
537.5	CARBONDALE		SHALE	3.0	133.0	
534.5	CARBONDALE	COLCHESTER	COAL	2.2	136.0	
532.3	CARBONDALE		UNDERCLAY	3.8	138.2	
528.5	TRADEWATER		SANDSTONE	3.0	142.0	
525.5	TRADEWATER		SANDY SHALE	5.0	145.0	
520.5	TRADEWATER		LIMESTONE	2.0	150.0	
518.5	TRADEWATER		SANDY SHALE	20.0	152.0	
498.5	TRADEWATER		BLACK SHALE	2.0	172.0	
496.5	TRADEWATER		COAL	0.4	174.0	BLOOM
496.1	TRADEWATER		SANDY SHALE	3.6	174.4	
492.5	TRADEWATER	ROCK ISLAND	COAL	3.0	178.0	
489.5	TRADEWATER		SHALE	7.0	181.0	

MAPID: 05786903000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 15 QUARTERS/FOOTAGES: 0' S line, 660' W line of NE SW

QUADRANGLE: RAY LONGITUDE: -90.386956 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.236086 DATE COLLECTED: 8 / 12 / 1959

SURFACE ELEVATION (FT.): 658.0 LOGGED (FT.): 115.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE S104 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
658.0	PLEISTOCENE		UNCONSOLIDATED	14.0	0.0	
644.0	PLEISTOCENE		CLAY & GRAVEL	20.0	14.0	
624.0	PLEISTOCENE		CLAY	22.0	34.0	
602.0	PLEISTOCENE		GRAY SHALE	20.0	56.0	HARD
582.0	CARBONDALE		SANDSTONE	22.0	76.0	HARD
560.0	CARBONDALE		DARK SHALE	2.0	98.0	
558.0	CARBONDALE		GRAY SHALE	11.0	100.0	
547.0	CARBONDALE	COLCHESTER	COAL	2.3	111.0	FAIR
544.7	CARBONDALE		UNDERCLAY	1.7	113.3	

MAPID: 05786905000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 15 QUARTERS/FOOTAGES: 660' S line, 0' E line of NW NW

QUADRANGLE: RAY LONGITUDE: -90.389187 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.245322 DATE COLLECTED: 8 / 11 / 1959

SURFACE ELEVATION (FT.): 637.4 LOGGED (FT.): 95.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE S176 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
637.4	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0	
625.4	PLEISTOCENE		CLAY & GRAVEL	20.0	12.0	
605.4	PLEISTOCENE		CLAY	14.0	32.0	
591.4	CARBONDALE		SANDY SHALE	45.5	46.0	HARD
545.9	CARBONDALE	COLCHESTER	COAL	2.3	91.5	FAIR
543.6	CARBONDALE		UNDERCLAY	1.2	93.8	

MAPID: 05786574000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 16 QUARTERS/FOOTAGES: 110' S line, 660' W line of NE NE

QUADRANGLE: RAY LONGITUDE: -90.396255 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.243825 DATE COLLECTED: 6 / 30 / 1966

SURFACE ELEVATION (FT.): 655.1 LOGGED (FT.): 116.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE K174Z WELL TYPE: Coal Test

COMMENT: SE VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.1	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
648.1	PLEISTOCENE		CLAY	10.0	7.0	
638.1	PLEISTOCENE		CLAY	18.0	17.0	
620.1	CARBONDALE		SANDY SHALE	75.0	35.0	HARD
545.1	CARBONDALE		GRAY SHALE	2.0	110.0	SOFT
543.1	CARBONDALE	COLCHESTER	COAL	2.5	112.0	
540.6	CARBONDALE		UNDERCLAY	1.5	114.5	

MAPID: 05786572000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 17 QUARTERS/FOOTAGES: 1' S line, 1' E line of SW SW
 QUADRANGLE: RAY LONGITUDE: -90.427103 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.232213 DATE COLLECTED: 4 / 29 / 1959
 SURFACE ELEVATION (FT.): 633.0 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE K11 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.0	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
626.0	PLEISTOCENE		CLAY	48.0	7.0	
578.0	CARBONDALE		GRAY SHALE	5.0	55.0	
573.0	CARBONDALE		SANDSTONE	3.0	60.0	WHITE
570.0	CARBONDALE		GRAY SHALE	3.8	63.0	
566.2	CARBONDALE	COLCHESTER	COAL	2.0	66.8	SOFT
564.2	CARBONDALE		UNDERCLAY	3.2	68.8	
561.0	CARBONDALE		SANDY SHALE	6.0	72.0	

MAPID: 05786795000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 17 QUARTERS/FOOTAGES: 660' N line, 660' W line of NW SE
 QUADRANGLE: RAY LONGITUDE: -90.419888 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.237645 DATE COLLECTED: 11 / 12 / 1959
 SURFACE ELEVATION (FT.): 658.7 LOGGED (FT.): 101.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE K89 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
658.7	PLEISTOCENE		CLAY	8.0	0.0	
650.7	PLEISTOCENE		SAND & GRAVEL	6.0	8.0	
644.7	PLEISTOCENE		CLAY	51.0	14.0	
593.7	CARBONDALE		SANDY SHALE	31.6	65.0	
562.1	CARBONDALE	COLCHESTER	COAL	2.4	96.6	GOOD
559.7	CARBONDALE		UNDERCLAY	2.0	99.0	SOFT

MAPID: 05786573000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 18 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW NE

QUADRANGLE: RAY LONGITUDE: -90.441289 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.239638 DATE COLLECTED: 4 / 23 / 1959

SURFACE ELEVATION (FT.): 632.3 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE K105 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
632.3	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
621.3	PLEISTOCENE		CLAY	52.0	11.0	
569.3	CARBONDALE		GRAY SHALE	4.7	63.0	
564.6	CARBONDALE	COLCHESTER	COAL	2.4	67.7	FAIR
562.2	CARBONDALE		UNDERCLAY	2.9	70.1	
559.3	CARBONDALE		GRAY SANDSTONE	5.0	73.0	

MAPID: 05786796000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 18 QUARTERS/FOOTAGES: SE NE

QUADRANGLE: RAY LONGITUDE: -90.434085 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.241334 DATE COLLECTED: 4 / 23 / 1959

SURFACE ELEVATION (FT.): 620.1 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE K109 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.1	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
610.1	PLEISTOCENE		CLAY	44.0	10.0	
566.1	TRADEWATER		SHALE	6.0	54.0	WHITE
560.1	TRADEWATER		GRAY SHALE	20.0	60.0	
540.1	TRADEWATER		SANDY SHALE	8.0	80.0	
532.1	TRADEWATER		BLACK SHALE	5.0	88.0	
527.1	TRADEWATER	ROCK ISLAND	COAL	2.0	93.0	FAIR
525.1	TRADEWATER		UNDERCLAY	3.0	95.0	

MAPID: 05786541000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 20 QUARTERS/FOOTAGES: 1' S line, 1' E line of SE SW
 QUADRANGLE: RAY LONGITUDE: -90.422504 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.217675 DATE COLLECTED: 4 / 29 / 1959
 SURFACE ELEVATION (FT.): 643.0 LOGGED (FT.): 99.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE L413 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
643.0	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0	
631.0	PLEISTOCENE		CLAY	15.0	12.0	
616.0	CARBONDALE		SANDY SHALE	68.9	27.0	
547.1	CARBONDALE	COLCHESTER	COAL	2.1	95.9	FAIR
545.0	CARBONDALE		UNDERCLAY	1.0	98.0	

MAPID: 05786789000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 20 QUARTERS/FOOTAGES: 165' S line, 165' W line of SW SW
 QUADRANGLE: RAY LONGITUDE: -90.431255 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.218244 DATE COLLECTED: 4 / 29 / 1950
 SURFACE ELEVATION (FT.): 637.0 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE L409K WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
637.0	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0	
633.0	PLEISTOCENE		CLAY & GRAVEL	17.0	4.0	
616.0	PLEISTOCENE		CLAY	47.0	21.0	
569.0	CARBONDALE		SANDY SHALE	25.0	68.0	
544.0	CARBONDALE	COLCHESTER	COAL	2.3	93.0	FAIR
541.7	CARBONDALE		UNDERCLAY	1.7	95.3	

MAPID: 05700001000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 3N 1E

SECTION: 22

QUARTERS/FOOTAGES: SE SE

QUADRANGLE: RAY

LONGITUDE: -90.377676

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.219445

DATE COLLECTED:

SURFACE ELEVATION (FT.): 680.0

LOGGED (FT.): 191.5

LOG TYPE: Drillers Log

SOURCE: SCRIPPS COAL CO.

WELL TYPE: Coal Test

COMMENT: LOCATION APPROXIMATE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.0			UNCONSOLIDATED	38.0	0.0	
642.0	CARBONDALE	CANTON	SHALE	27.0	38.0	LWR 21 FT "SOAPSTONE"
615.0	CARBONDALE	ST. DAVID	LIMESTONE	0.6	65.0	"CAP RK"
614.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	65.6	FISSILE
612.5	CARBONDALE	SPRINGFIELD	COAL	5.7	67.5	
606.8	CARBONDALE		UNDERCLAY	15.0	73.2	
591.8	CARBONDALE		SHALE	62.5	88.2	LWR 7.5 FT "SOAPSTONE"
529.3	CARBONDALE		LIMESTONE	4.8	150.7	"HARD RK"
524.5	CARBONDALE		SHALE	14.0	155.5	"SOAPSTONE"
510.5	CARBONDALE		SANDSTONE	20.0	169.5	
490.5	CARBONDALE		ROCK	2.0	189.5	"ROCK"

MAPID: 05700001000C VERSION: 2

PROJECT: NCRDS87

COUNTY: FULTON

TWP/RNG: 3N 1E

SECTION: 22

QUARTERS/FOOTAGES: SE SE

QUADRANGLE: RAY

LONGITUDE: -90.377676

GEOLOGIST: WEIBEL

CONFIDENTIAL: N

LATITUDE: 40.219445

DATE COLLECTED:

SURFACE ELEVATION (FT.): 665.0

LOGGED (FT.): 191.5

LOG TYPE: Drillers Log

SOURCE: SCRIPPS COAL CO.

WELL TYPE: Coal Test

COMMENT: LOCATION AND ELEVATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	38.0	0.0	
627.0	CARBONDALE		UNCLASSIFIED	27.0	38.0	
600.0	CARBONDALE		LIMESTONE	0.6	65.0	
599.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	65.6	
597.5	CARBONDALE	SPRINGFIELD	COAL	5.7	67.5	
591.8	CARBONDALE		UNDERCLAY	15.0	73.2	
576.8	CARBONDALE		UNCLASSIFIED	103.3	88.2	

MAPID: 05700002000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 23 QUARTERS/FOOTAGES: 165' N line, 0' W line of SE SE SE NE

QUADRANGLE: ASTORIA LONGITUDE: -90.35715 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.225112 DATE COLLECTED: 6 / 0 / 1915

SURFACE ELEVATION (FT.): 710.0 LOGGED (FT.): 541.0 LOG TYPE: Drillers Log

SOURCE: ASTORIA CREAMERY ASSOCIATION WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
710.0			UNCONSOLIDATED	52.0	0.0	
658.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	52.0	
657.0	CARBONDALE	SPRINGFIELD	COAL	6.0	53.0	
651.0	CARBONDALE		UNDERCLAY	25.0	59.0	
626.0	CARBONDALE	PURINGTON	SHALE	80.0	84.0	
546.0	CARBONDALE	COLCHESTER	COAL	3.0	164.0	BASE OF CARBONDALE
543.0	SPOON		SHALE	60.0	167.0	
483.0	SPOON	SEVILLE	LIMESTONE	2.0	227.0	
481.0	SPOON	ROCK ISLAND	COAL	2.0	229.0	BASE OF PENNSYLVANIAN
479.0			LIMESTONE W/ SHALE	310.0	231.0	MISSISSIPPIAN

MAPID: 05700003000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 24 QUARTERS/FOOTAGES: NE NE

QUADRANGLE: ASTORIA LONGITUDE: -90.339129 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.229747 DATE COLLECTED:

SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 53.1 LOG TYPE: Drillers Log

SOURCE: SCRIPPS COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.0			UNCONSOLIDATED	44.5	0.0	
655.5	CARBONDALE	ST. DAVID	LIMESTONE	0.5	44.5	"CAPRK"
655.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	45.0	FISSILE
652.7	CARBONDALE	SPRINGFIELD	COAL	5.8	47.3	

MAPID: 05700003000C VERSION: 2

PROJECT: NCRDS87

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 24 QUARTERS/FOOTAGES: NE NE

QUADRANGLE: ASTORIA LONGITUDE: -90.339129 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 40.229747 DATE COLLECTED:

SURFACE ELEVATION (FT.): 695.0 LOGGED (FT.): 53.1 LOG TYPE: Drillers Log

SOURCE: SCRIPPS COAL COMPANY WELL TYPE: Coal Test

COMMENT: ELEVATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.0			UNCONSOLIDATED	44.5	0.0	
650.5	CARBONDALE		LIMESTONE	0.5	44.5	
650.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	45.0	
647.7	CARBONDALE	SPRINGFIELD	COAL	5.8	47.3	

MAPID: 05786950000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 26 QUARTERS/FOOTAGES: 0' N line, 330' W line of NE NE

QUADRANGLE: ASTORIA LONGITUDE: -90.359696 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.217319 DATE COLLECTED: 10 / 1 / 1965

SURFACE ELEVATION (FT.): 660.7 LOGGED (FT.): 34.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE U365B WELL TYPE: Coal Test

COMMENT: SE VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.7	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
653.7	PLEISTOCENE		CLAY	7.0	7.0	
646.7	PLEISTOCENE		CLAY	11.0	14.0	
635.7	CARBONDALE		SHALE	1.0	25.0	SOFT
634.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	26.0	SOFT
632.7	CARBONDALE	SPRINGFIELD	COAL	4.5	28.0	
628.2	CARBONDALE		GRAY SHALE	1.5	32.5	SOFT

MAPID: 05786951000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 1E SECTION: 26 QUARTERS/FOOTAGES: NW NW

QUADRANGLE: ASTORIA LONGITUDE: -90.372909 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.215691 DATE COLLECTED: 10 / 12 / 1960

SURFACE ELEVATION (FT.): 664.6 LOGGED (FT.): 62.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE U411 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.6	PLEISTOCENE		CLAY	14.0	0.0	
650.6	PLEISTOCENE		CLAY	16.0	14.0	
634.6	PLEISTOCENE		CLAY	10.0	30.0	
624.6	CARBONDALE		MICACEOUS SHALE	8.0	40.0	
616.6	CARBONDALE		DARK SHALE	11.0	48.0	
605.6	CARBONDALE	SPRINGFIELD	COAL	2.5	59.0	GOOD
603.1	CARBONDALE		UNDERCLAY	0.5	61.5	

MAPID: 05786948000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 2E SECTION: 5 QUARTERS/FOOTAGES: 0' N line, 1190' E line of SE SW

QUADRANGLE: IPAVA LONGITUDE: -90.310373 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.264172 DATE COLLECTED: 8 / 5 / 1960

SURFACE ELEVATION (FT.): 629.4 LOGGED (FT.): 84.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE T411 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.4	PLEISTOCENE		CLAY	7.0	0.0	
622.4	PLEISTOCENE		CLAY	29.0	7.0	
593.4	CARBONDALE		SANDY SHALE	17.0	36.0	HARD
576.4	CARBONDALE		SANDY SHALE	27.0	53.0	SOFT
549.4	CARBONDALE	COLCHESTER	COAL	2.3	80.0	GOOD
547.1	CARBONDALE		UNDERCLAY	1.8	82.3	

MAPID: 05786949000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 2E SECTION: 5 QUARTERS/FOOTAGES: 0' N line, 660' E line of NW NW

QUADRANGLE: IPA VA LONGITUDE: -90.312931 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.275245 DATE COLLECTED: 8 / 8 / 1960

SURFACE ELEVATION (FT.): 606.0 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE T560 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
606.0	PLEISTOCENE		CLAY	15.0	0.0	
591.0	PLEISTOCENE		CLAY	10.0	15.0	
581.0	PLEISTOCENE		CLAY	30.0	25.0	
551.0	CARBONDALE		SHALE	10.0	55.0	SOFT
541.0	CARBONDALE	COLCHESTER	COAL	1.9	65.0	GOOD
539.1	CARBONDALE		UNDERCLAY	1.1	66.9	

MAPID: 05786929000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 2E SECTION: 7 QUARTERS/FOOTAGES: 660' S line, 660' E line of SW SW

QUADRANGLE: ASTORIA LONGITUDE: -90.333942 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.248179 DATE COLLECTED: 12 / 30 / 1959

SURFACE ELEVATION (FT.): 636.4 LOGGED (FT.): 92.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE T227 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
636.4	PLEISTOCENE		CLAY	11.0	0.0	
625.4	PLEISTOCENE		CLAY	20.0	11.0	
605.4	PLEISTOCENE		CLAY	24.0	31.0	
581.4	CARBONDALE		MICACEOUS SHALE	30.0	55.0	SOFT
551.4	CARBONDALE		SANDSTONE	2.0	85.0	HARD
549.4	CARBONDALE		SHALE	1.0	87.0	SOFT
548.4	CARBONDALE	COLCHESTER	COAL	2.0	88.0	GOOD
546.4	CARBONDALE		UNDERCLAY	2.0	90.0	

MAPID: 05786930000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 3N 2E **SECTION:** 7 **QUARTERS/FOOTAGES:** NW NW
QUADRANGLE: IPAVA **LONGITUDE:** -90.333697 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.258731 **DATE COLLECTED:** 6 / 16 / 1959
SURFACE ELEVATION (FT.): 602.5 **LOGGED (FT.):** 58.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE T353 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
602.5	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
596.5	PLEISTOCENE		CLAY	30.0	6.0	
566.5	CARBONDALE		GRAY SHALE	15.0	36.0	
551.5	CARBONDALE	COLCHESTER	COAL	2.2	51.0	FAIR
549.3	CARBONDALE		UNDERCLAY	2.8	53.2	
546.5	CARBONDALE		SANDSTONE/SHALE	2.0	56.0	

MAPID: 05786931000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 3N 2E **SECTION:** 7 **QUARTERS/FOOTAGES:** 21' N line, 714' W line of SE NE
QUADRANGLE: IPAVA **LONGITUDE:** -90.319433 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.256816 **DATE COLLECTED:** 12 / 19 / 1961
SURFACE ELEVATION (FT.): 624.7 **LOGGED (FT.):** 83.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE T358 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
624.7	PLEISTOCENE		CLAY	9.0	0.0	
615.7	PLEISTOCENE		CLAY	6.0	9.0	
609.7	PLEISTOCENE		CLAY	9.0	15.0	
600.7	CARBONDALE		SANDY SHALE	40.0	24.0	
560.7	CARBONDALE		SHALE	16.0	64.0	SOFT
544.7	CARBONDALE	COLCHESTER	COAL	1.8	80.0	GOOD
542.9	CARBONDALE		UNDERCLAY	1.2	81.8	

MAPID: 05786965000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 2E SECTION: 12 QUARTERS/FOOTAGES: NW SW

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.236699 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.251381 DATE COLLECTED: 5 / 16 / 1961

SURFACE ELEVATION (FT.): 601.9 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE EE317 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
601.9	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
594.9	PLEISTOCENE		CLAY	48.0	7.0	
546.9	PLEISTOCENE		SAND & GRAVEL	4.0	55.0	
542.9	PLEISTOCENE		CLAY	24.0	59.0	
518.9	CARBONDALE		GRAY SHALE	7.8	83.0	
511.1	CARBONDALE		SANDY SHALE	3.0	90.8	
508.1	CARBONDALE	COLCHESTER	COAL	2.4	93.8	GOOD
505.7	CARBONDALE		UNDERCLAY	1.8	96.2	

MAPID: 05786964000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 2E SECTION: 14 QUARTERS/FOOTAGES: 660' S line, 660' E line of NW SE

QUADRANGLE: BATH LONGITUDE: -90.246815 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.235224 DATE COLLECTED: 4 / 4 / 1960

SURFACE ELEVATION (FT.): 609.7 LOGGED (FT.): 146.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE EE89 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
609.7	PLEISTOCENE		UNCONSOLIDATED	17.0	0.0	
592.7	PLEISTOCENE		CLAY	17.0	17.0	
575.7	PLEISTOCENE		CLAY	9.0	34.0	
566.7	CARBONDALE		SANDY SHALE	34.0	43.0	HARD
532.7	CARBONDALE	COLCHESTER	COAL	2.3	77.0	FAIR
530.4	CARBONDALE		UNDERCLAY	4.7	79.3	SOFT
525.7	TRADEWATER		SANDY SHALE	58.0	84.0	HARD
467.7	TRADEWATER	ROCK ISLAND	COAL	2.3	142.0	HARD
465.4	TRADEWATER		SANDY SHALE	1.8	144.3	SOFT

MAPID: 05786995000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 3N 2E SECTION: 21 QUARTERS/FOOTAGES: NW SE

QUADRANGLE: ASTORIA LONGITUDE: -90.286087 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.222075 DATE COLLECTED: 2 / 5 / 1960

SURFACE ELEVATION (FT.): 588.7 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE Y521 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
588.7	PLEISTOCENE		CLAY	7.0	0.0
581.7	PLEISTOCENE		CLAY	20.0	7.0
561.7	CARBONDALE		SHALE	4.0	27.0
557.7	CARBONDALE	COLCHESTER	COAL	1.0	31.0
556.7	CARBONDALE		SANDY SHALE	28.0	32.0
528.7	CARBONDALE		LIMESTONE	7.0	60.0

MAPID: 05786958000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 2E SECTION: 22 QUARTERS/FOOTAGES: SE SE

QUADRANGLE: ASTORIA LONGITUDE: -90.259772 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.217902 DATE COLLECTED: 7 / 20 / 1960

SURFACE ELEVATION (FT.): 628.4 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE DD407 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
628.4	PLEISTOCENE		CLAY	15.0	0.0
613.4	PLEISTOCENE		CLAY	10.0	15.0
603.4	PLEISTOCENE		CLAY	10.0	25.0
593.4	CARBONDALE		SHALE	34.0	35.0 SOFT
559.4	CARBONDALE	COLCHESTER	COAL	1.2	69.0 GOOD
558.2	CARBONDALE		UNDERCLAY	1.8	70.2

MAPID: 0578696000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 2E SECTION: 22 QUARTERS/FOOTAGES: NW SW

QUADRANGLE: ASTORIA LONGITUDE: -90.275331 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.221809 DATE COLLECTED: 2 / 1 / 1960

SURFACE ELEVATION (FT.): 629.0 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE DD501 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.0	PLEISTOCENE		CLAY	20.0	0.0	
609.0	PLEISTOCENE		CLAY	10.0	20.0	
599.0	PLEISTOCENE		CLAY	8.0	30.0	
591.0	CARBONDALE		SHALE	10.0	38.0	SOFT
581.0	CARBONDALE		SHALE	27.0	48.0	HARD
554.0	CARBONDALE	COLCHESTER	COAL	1.8	75.0	FAIR
552.2	CARBONDALE		UNDERCLAY	1.2	76.8	

MAPID: 05786959000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 2E SECTION: 23 QUARTERS/FOOTAGES: 216' N line, 660' E line of SW SE

QUADRANGLE: BATH LONGITUDE: -90.247215 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.21945 DATE COLLECTED: 2 / 9 / 1960

SURFACE ELEVATION (FT.): 632.4 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE DD439D WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
632.4	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
623.4	PLEISTOCENE		CLAY	30.0	9.0	
593.4	PLEISTOCENE		CLAY	22.0	39.0	
571.4			SANDY SHALE	27.0	61.0	SOFT
544.4			COAL	0.5	88.0	SOFT
543.9			SHALE	8.5	88.5	

MAPID: 05786961000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 2E SECTION: 23 QUARTERS/FOOTAGES: 0' S line, 660' E line of NW SE

QUADRANGLE: BATH LONGITUDE: -90.2472 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.220044 DATE COLLECTED: 2 / 9 / 1960

SURFACE ELEVATION (FT.): 646.4 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE DD514 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.4	PLEISTOCENE		CLAY	20.0	0.0	
626.4	PLEISTOCENE		CLAY	7.0	20.0	
619.4	PLEISTOCENE		CLAY	15.0	27.0	
604.4	CARBONDALE		SHALE	20.0	42.0	SOFT
584.4	CARBONDALE		SANDY SHALE	21.0	62.0	HARD
563.4	CARBONDALE	COLCHESTER	COAL	1.2	83.0	FAIR
562.2	CARBONDALE		UNDERCLAY	1.8	84.2	

MAPID: 05786962000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 2E SECTION: 23 QUARTERS/FOOTAGES: NW NW

QUADRANGLE: ASTORIA LONGITUDE: -90.25609 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.228217 DATE COLLECTED: 2 / 2 / 1960

SURFACE ELEVATION (FT.): 645.2 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE DD559 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.2	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0	
633.2	PLEISTOCENE		CLAY	24.0	12.0	
609.2	CARBONDALE		SANDY SHALE	21.0	36.0	
588.2	CARBONDALE		UNKNOWN	27.0	57.0	
561.2	CARBONDALE	COLCHESTER	COAL	1.1	84.0	FAIR
560.1	CARBONDALE		UNDERCLAY	1.9	85.1	

MAPID: 05786963000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 3N 2E **SECTION:** 24 **QUARTERS/FOOTAGES:** NW NW
QUADRANGLE: BATH **LONGITUDE:** -90.236888 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.229132 **DATE COLLECTED:** 7 / 12 / 1960
SURFACE ELEVATION (FT.): 602.5 **LOGGED (FT.):** 47.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE DD569 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
602.5	PLEISTOCENE		CLAY	12.0	0.0	
590.5	PLEISTOCENE		CLAY	15.0	12.0	
575.5	CARBONDALE		SANDY SHALE	12.0	27.0	
563.5	CARBONDALE	COLCHESTER	COAL	1.5	39.0	14" GOOD, 4" SOFT
562.0	CARBONDALE		SHALE	6.5	40.5	SOFT

MAPID: 05786954000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 3N 2E **SECTION:** 25 **QUARTERS/FOOTAGES:** 780' N line, 0' E line of SW SE
QUADRANGLE: BATH **LONGITUDE:** -90.224331 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.201506 **DATE COLLECTED:** 2 / 2 / 1960
SURFACE ELEVATION (FT.): 633.2 **LOGGED (FT.):** 122.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE DD246 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.2	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0	
621.2	PLEISTOCENE		CLAY	34.0	12.0	
587.2	PLEISTOCENE		CLAY	12.0	46.0	
575.2	CARBONDALE		SANDSTONE	14.0	58.0	SOFT
561.2	CARBONDALE		SANDY SHALE	37.0	72.0	SOFT
524.2	CARBONDALE		DARK SHALE	9.0	109.0	SOFT
515.2	CARBONDALE	COLCHESTER	COAL	2.8	118.0	GOOD
512.4	CARBONDALE		UNDERCLAY	1.2	120.8	

MAPID: 05786956000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 3N 2E **SECTION:** 25 **QUARTERS/FOOTAGES:** NW SE
QUADRANGLE: BATH **LONGITUDE:** -90.226657 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.205744 **DATE COLLECTED:** 2 / 3 / 1960
SURFACE ELEVATION (FT.): 617.2 **LOGGED (FT.):** 105.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE DD321 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
617.2	PLEISTOCENE		UNCONSOLIDATED	23.0	0.0	
594.2	PLEISTOCENE		CLAY	33.0	23.0	
561.2	CARBONDALE		SANDY SHALE	44.0	56.0	HARD
517.2	CARBONDALE	COLCHESTER	COAL	2.5	100.0	FAIR
514.7	CARBONDALE		SHALE	2.5	102.5	SOFT

MAPID: 05786957000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 3N 2E **SECTION:** 25 **QUARTERS/FOOTAGES:** NE NE
QUADRANGLE: BATH **LONGITUDE:** -90.222074 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.21359 **DATE COLLECTED:** 7 / 14 / 1960
SURFACE ELEVATION (FT.): 615.8 **LOGGED (FT.):** 97.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE DD373 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
615.8	PLEISTOCENE		CLAY	14.0	0.0	
601.8	PLEISTOCENE		CLAY	17.0	14.0	
584.8	PLEISTOCENE		CLAY	24.0	31.0	
560.8	CARBONDALE		SANDY SHALE	36.0	55.0	
524.8	CARBONDALE	COLCHESTER	COAL	2.0	91.0	GOOD
522.8	CARBONDALE		SHALE	4.0	93.0	SOFT

MAPID: 05786955000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 2E SECTION: 26 QUARTERS/FOOTAGES: SW SW

QUADRANGLE: ASTORIA LONGITUDE: -90.256108 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.203289 DATE COLLECTED: 7 / 18 / 1960

SURFACE ELEVATION (FT.): 586.2 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE DD261 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
586.2	PLEISTOCENE		CLAY	15.0	0.0	
571.2	PLEISTOCENE		CLAY	10.0	15.0	
561.2	PLEISTOCENE		CLAY	12.0	25.0	
549.2			SHALE	40.0	37.0	SOFT
509.2			SANDY SHALE	21.0	77.0	HARD
488.2			COAL	0.5	98.0	GOOD
487.7			UNDERCLAY	1.5	98.5	

MAPID: 05786994000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 3N 2E SECTION: 28 QUARTERS/FOOTAGES: SW SW

QUADRANGLE: ASTORIA LONGITUDE: -90.295587 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.203701 DATE COLLECTED: 4 / 14 / 1960

SURFACE ELEVATION (FT.): 633.2 LOGGED (FT.): 104.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE Y269 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.2	PLEISTOCENE		CLAY	20.0	0.0	
613.2	PLEISTOCENE		CLAY	15.0	20.0	
598.2	PLEISTOCENE		CLAY	37.0	35.0	
561.2	CARBONDALE		SHALE	15.0	72.0	SOFT
546.2	CARBONDALE		SHALE	14.0	87.0	HARD
532.2	CARBONDALE	COLCHESTER	COAL	1.8	101.0	SOFT
530.4	CARBONDALE		UNDERCLAY	1.2	102.8	

MAPID: 05786952000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 2E SECTION: 36 QUARTERS/FOOTAGES: NW NW

QUADRANGLE: BATH LONGITUDE: -90.236719 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.197776 DATE COLLECTED: 2 / 3 / 1960

SURFACE ELEVATION (FT.): 564.9 LOGGED (FT.): 45.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE DD167 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
564.9	PLEISTOCENE		CLAY	12.0	0.0	
552.9	PLEISTOCENE		CLAY	10.0	12.0	
542.9	PLEISTOCENE		CLAY	10.0	22.0	
532.9	CARBONDALE		SHALE	5.0	32.0	SOFT
527.9	CARBONDALE		SANDY SHALE	4.0	37.0	HARD
523.9	CARBONDALE	COLCHESTER	COAL	2.5	41.0	FAIR
521.4	CARBONDALE		UNDERCLAY	1.5	43.5	

MAPID: 05786953000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 3N 2E SECTION: 36 QUARTERS/FOOTAGES: NE NE

QUADRANGLE: BATH LONGITUDE: -90.221948 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.197309 DATE COLLECTED: 7 / 18 / 1960

SURFACE ELEVATION (FT.): 580.6 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE DD173 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
580.6	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
569.6	PLEISTOCENE		CLAY	6.0	11.0	
563.6	PLEISTOCENE		CLAY	11.0	17.0	
552.6	CARBONDALE		SANDY SHALE	33.0	28.0	
519.6	CARBONDALE	COLCHESTER	COAL	2.3	61.0	
517.3	CARBONDALE		UNDERCLAY	1.7	63.3	

MAPID: 05786969000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 3N 3E **SECTION:** 30 **QUARTERS/FOOTAGES:** NW NW
QUADRANGLE: BATH **LONGITUDE:** -90.217398 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.213635 **DATE COLLECTED:** 2 / 3 / 1960
SURFACE ELEVATION (FT.): 624.0 **LOGGED (FT.):** 115.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE GG353 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
624.0	PLEISTOCENE		UNCONSOLIDATED	14.0	0.0	
610.0	PLEISTOCENE		CLAY	23.0	14.0	
587.0	CARBONDALE		SANDY SHALE	32.0	37.0	
555.0	CARBONDALE		SANDY SHALE	42.0	69.0	HARD
513.0	CARBONDALE	COLCHESTER	COAL	2.3	111.0	GOOD
510.7	CARBONDALE		UNDERCLAY	1.7	113.3	

MAPID: 05786966000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 3N 3E **SECTION:** 31 **QUARTERS/FOOTAGES:** SW SW
QUADRANGLE: BATH **LONGITUDE:** -90.217533 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.185809 **DATE COLLECTED:** 7 / 21 / 1960
SURFACE ELEVATION (FT.): 601.0 **LOGGED (FT.):** 119.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE GG51 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
601.0	PLEISTOCENE		CLAY	20.0	0.0	
581.0	PLEISTOCENE		CLAY	20.0	20.0	
561.0	PLEISTOCENE		CLAY	40.0	40.0	
521.0	CARBONDALE		SANDY SHALE	36.0	80.0	SOFT
485.0	CARBONDALE	COLCHESTER	COAL	1.3	116.0	SOFT
483.7	CARBONDALE		UNDERCLAY	1.5	117.3	

MAPID: 05786967000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 3N 3E **SECTION:** 31 **QUARTERS/FOOTAGES:** NW SE
QUADRANGLE: BATH **LONGITUDE:** -90.208052 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.189387 **DATE COLLECTED:** 4 / 11 / 1960
SURFACE ELEVATION (FT.): 617.1 **LOGGED (FT.):** 104.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE GG105 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
617.1	PLEISTOCENE		CLAY	9.0	0.0	
608.1	PLEISTOCENE		CLAY	46.0	9.0	
562.1	PLEISTOCENE		CLAY	16.0	55.0	
546.1	CARBONDALE		SHALE	28.0	71.0	
518.1	CARBONDALE	COLCHESTER	COAL	2.4	99.0	GOOD
515.7	CARBONDALE		UNDERCLAY	2.6	101.4	

MAPID: 05786968000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 3N 3E **SECTION:** 31 **QUARTERS/FOOTAGES:** 0' S line, 72' E line of NW NE
QUADRANGLE: BATH **LONGITUDE:** -90.205919 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.194811 **DATE COLLECTED:** 2 / 8 / 1960
SURFACE ELEVATION (FT.): 627.6 **LOGGED (FT.):** 114.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE GG207 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
627.6	PLEISTOCENE		UNCONSOLIDATED	14.0	0.0	
613.6	PLEISTOCENE		SAND	12.0	14.0	
601.6	PLEISTOCENE		CLAY	37.0	26.0	
564.6	CARBONDALE		SANDY SHALE	15.0	63.0	SOFT
549.6	CARBONDALE		SANDY SHALE	32.0	78.0	HARD
517.6	CARBONDALE	COLCHESTER	COAL	2.2	110.0	GOOD
515.4	CARBONDALE		SHALE/UNDERCLAY	1.8	112.2	

MAPID: 05786991000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 1 QUARTERS/FOOTAGES: NW SE

QUADRANGLE: IPAVA LONGITUDE: -90.340567 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.354261 DATE COLLECTED: 10 / 5 / 1961

SURFACE ELEVATION (FT.): 651.6 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE X521 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.6	PLEISTOCENE		CLAY	11.0	0.0	
640.6	PLEISTOCENE		CLAY	12.0	11.0	
628.6	PLEISTOCENE		CLAY	15.0	23.0	
613.6	CARBONDALE		SHALE	20.0	38.0	SOFT
593.6	CARBONDALE		LIMESTONE	3.0	58.0	CAP ROCK
590.6	CARBONDALE		SANDY SHALE	44.0	61.0	HARD
546.6	CARBONDALE	COLCHESTER	COAL	2.0	105.0	GOOD
544.6	CARBONDALE		UNDERCLAY	1.0	107.0	

MAPID: 05786992000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 1 QUARTERS/FOOTAGES: 660' S line, 660' W line of NW NE

QUADRANGLE: IPAVA LONGITUDE: -90.340374 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.36152 DATE COLLECTED: 10 / 4 / 1961

SURFACE ELEVATION (FT.): 620.7 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE X597 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.7	PLEISTOCENE		CLAY	5.0	0.0	
615.7	PLEISTOCENE		CLAY	6.0	5.0	
609.7	CARBONDALE		DARK SHALE	7.0	11.0	SOFT
602.7	CARBONDALE		SANDY SHALE	45.0	18.0	HARD DARK
557.7	CARBONDALE	COLCHESTER	COAL	2.0	63.0	GOOD
555.7	CARBONDALE		UNDERCLAY	2.0	65.0	

MAPID: 05786990000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 2 QUARTERS/FOOTAGES: NW SW

QUADRANGLE: IPAVA LONGITUDE: -90.369585 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.354538 DATE COLLECTED: 8 / 30 / 1961

SURFACE ELEVATION (FT.): 666.2 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE X511 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.2	PLEISTOCENE		UNCONSOLIDATED	13.0	0.0	
653.2	PLEISTOCENE		CLAY	11.0	13.0	
642.2	PLEISTOCENE		CLAY	11.0	24.0	
631.2	CARBONDALE		SHALE	69.0	35.0	SOFT
562.2	CARBONDALE	COLCHESTER	COAL	2.1	104.0	GOOD
560.1	CARBONDALE		UNDERCLAY	1.9	106.1	

MAPID: 05786993000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 2 QUARTERS/FOOTAGES: NW NW

QUADRANGLE: IPAVA LONGITUDE: -90.36944 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.361672 DATE COLLECTED: 8 / 31 / 1961

SURFACE ELEVATION (FT.): 663.7 LOGGED (FT.): 102.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE X611 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.7	PLEISTOCENE		CLAY	8.0	0.0	
655.7	PLEISTOCENE		CLAY	11.0	8.0	
644.7	PLEISTOCENE		CLAY	13.0	19.0	
631.7	CARBONDALE		DARK SHALE	66.0	32.0	
565.7	CARBONDALE	COLCHESTER	COAL	2.1	98.0	GOOD
563.6	CARBONDALE		UNDERCLAY	1.9	100.1	

MAPID: 05724692000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 3 QUARTERS/FOOTAGES: 990' S line, 2625' E line

QUADRANGLE: VERMONT LONGITUDE: -90.381524 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.352019 DATE COLLECTED: 11 / 14 / 1977

SURFACE ELEVATION (FT.): 663.7 LOGGED (FT.): 82.3 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. X430C WELL TYPE: Coal Test

COMMENT: PERMIT 26; SUNSPOT MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.7	PLEISTOCENE		SANDY CLAY	32.0	0.0	
631.7	CARBONDALE	FRANCIS CREEK	SHALE	42.5	32.0	LIGHT GRAY
589.2	CARBONDALE	COLCHESTER	COAL	2.0	74.5	
587.2	CARBONDALE		UNDERCLAY	1.9	76.5	
585.3	CARBONDALE		SHALE	3.9	78.4	LIGHT GRAY

MAPID: 05786779000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 3 QUARTERS/FOOTAGES: 660' N line, 7' W line of NW NW

QUADRANGLE: VERMONT LONGITUDE: -90.390989 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.361907 DATE COLLECTED: 4 / 6 / 1977

SURFACE ELEVATION (FT.): 680.7 LOGGED (FT.): 107.0 LOG TYPE: Drillers Log

SOURCE: AMAX B600 WELL TYPE: Coal Test

COMMENT: IPAWA CAMP ELLIS BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.7	PLEISTOCENE		CLAY	22.0	0.0	
658.7	CARBONDALE		GRAY SHALE	30.7	22.0	
628.0	CARBONDALE		LIMESTONE	0.5	52.7	
627.5	CARBONDALE		GRAY SHALE	38.6	53.2	
588.9	CARBONDALE	COLCHESTER	COAL	2.0	91.8	
586.9	CARBONDALE		UNDERCLAY	4.2	93.8	
582.7	CARBONDALE		GRAY SHALE	9.0	98.0	

MAPID: 05786988000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 3 QUARTERS/FOOTAGES: 2' S line, 654' W line of SW SE
 QUADRANGLE: VERMONT LONGITUDE: -90.37925 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.349276 DATE COLLECTED: 3 / 15 / 1977
 SURFACE ELEVATION (FT.): 658.5 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log
 SOURCE: AMAX X406 WELL TYPE: Coal Test
 COMMENT: NORTHEAST BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
658.5	PLEISTOCENE		UNCONSOLIDATED	22.0	0.0
636.5	PLEISTOCENE		UNKNOWN	10.0	22.0
626.5	CARBONDALE		GRAY SHALE	52.5	32.0
574.0	CARBONDALE	COLCHESTER	COAL	2.2	84.5
571.8	CARBONDALE		UNDERCLAY	3.3	86.7
568.5	CARBONDALE		MICACEOUS SHALE	8.0	90.0

MAPID: 05786989000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 3 QUARTERS/FOOTAGES: 330' N line, 337' E line of NW SE
 QUADRANGLE: VERMONT LONGITUDE: -90.377965 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.355494 DATE COLLECTED: 3 / 14 / 1978
 SURFACE ELEVATION (FT.): 665.8 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log
 SOURCE: AMAX X480A WELL TYPE: Coal Test
 COMMENT: SUNSPOT NE BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
665.8	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0
660.8	PLEISTOCENE		CLAY	11.0	5.0
649.8	PLEISTOCENE		UNCONSOLIDATED	23.0	16.0
626.8	CARBONDALE		GRAY SHALE	47.0	39.0
579.8	CARBONDALE	COLCHESTER	COAL	1.8	86.0
578.0	CARBONDALE		UNDERCLAY	2.2	87.8
575.8	CARBONDALE		GRAY SHALE	7.0	90.0

MAPID: 05724693000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 4 QUARTERS/FOOTAGES: 1660' S line, 2657' W line
 QUADRANGLE: VERMONT LONGITUDE: -90.400775 GEOLOGIST: J. MCBETH
 CONFIDENTIAL: N LATITUDE: 40.35404 DATE COLLECTED: 11 / 15 / 1977
 SURFACE ELEVATION (FT.): 664.7 LOGGED (FT.): 88.2 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. B471C WELL TYPE: Coal Test
 COMMENT: PERMIT 26; SUNSPOT MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.7	PLEISTOCENE		SANDY CLAY	24.0	0.0	
640.7	PLEISTOCENE		CLAY	8.0	24.0	
632.7	CARBONDALE	FRANCIS CREEK	SHALE	50.3	32.0	DARK GRAY
582.4	CARBONDALE	COLCHESTER	COAL	1.8	82.3	
580.6	CARBONDALE		UNDERCLAY	2.1	84.1	
578.5	CARBONDALE		SHALE	2.0	86.2	

MAPID: 05786562000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 4 QUARTERS/FOOTAGES: 1' N line, 1' E line of NE SW
 QUADRANGLE: VERMONT LONGITUDE: -90.40069 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.356663 DATE COLLECTED: 5 / 25 / 1965
 SURFACE ELEVATION (FT.): 674.0 LOGGED (FT.): 95.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE B521 WELL TYPE: Coal Test
 COMMENT: NE VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.0	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0	
662.0	PLEISTOCENE		CLAY	7.0	12.0	
655.0	PLEISTOCENE		SAND & GRAVEL	26.0	19.0	
629.0	CARBONDALE		SANDY SHALE	46.0	45.0	
583.0	CARBONDALE	COLCHESTER	COAL	2.2	91.0	HARD
580.8	CARBONDALE		UNDERCLAY	1.8	93.2	

MAPID: 05786776000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 4 QUARTERS/FOOTAGES: 660' N line, 50' E line of NE SE
 QUADRANGLE: VERMONT LONGITUDE: -90.391233 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.35473 DATE COLLECTED: 11 / 3 / 1976
 SURFACE ELEVATION (FT.): 658.0 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX R500 WELL TYPE: Coal Test
 COMMENT: NORTHEAST BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
658.0	PLEISTOCENE		CLAY	5.0	0.0
653.0	PLEISTOCENE		CLAY	14.0	5.0
639.0	PLEISTOCENE		CLAY	16.0	19.0
623.0	CARBONDALE		SANDY SHALE	5.0	35.0
618.0	CARBONDALE		GRAY SHALE	40.5	40.0
577.5	CARBONDALE	COLCHESTER	COAL	1.7	80.5
575.8	CARBONDALE		UNDERCLAY	5.8	82.2

MAPID: 05786777000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 4 QUARTERS/FOOTAGES: 990' N line, 20' W line of SW NW
 QUADRANGLE: VERMONT LONGITUDE: -90.410247 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.357688 DATE COLLECTED: 3 / 2 / 1976
 SURFACE ELEVATION (FT.): 671.5 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: AMAX B517C WELL TYPE: Coal Test
 COMMENT: IPAWA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
671.5	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0
659.5	PLEISTOCENE		CLAY	4.0	12.0
655.5	PLEISTOCENE		SAND & GRAVEL	1.0	16.0
654.5	PLEISTOCENE		CLAY	46.0	17.0
608.5	CARBONDALE		GRAY SHALE	11.2	63.0
597.3	CARBONDALE	COLCHESTER	COAL	2.2	74.2
595.1	CARBONDALE		MICACEOUS SHALE	1.6	76.4

MAPID: 05786778000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 4 QUARTERS/FOOTAGES: 660' N line, 677' E line of NW NE

QUADRANGLE: VERMONT LONGITUDE: -90.398259 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.362023 DATE COLLECTED: 4 / 18 / 1977

SURFACE ELEVATION (FT.): 671.0 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log

SOURCE: AMAX B597 WELL TYPE: Coal Test

COMMENT: IPAWA CAMP ELLIS BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.0	PLEISTOCENE		CLAY	22.0	0.0	
649.0	PLEISTOCENE		CLAY	7.0	22.0	
642.0	CARBONDALE		GRAY SHALE	49.0	29.0	
593.0	CARBONDALE	COLCHESTER	COAL	2.1	78.0	
590.9	CARBONDALE		UNDERCLAY	1.5	80.1	
589.4	CARBONDALE		SANDY SHALE	3.4	81.6	

MAPID: 05700008000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 6 QUARTERS/FOOTAGES: 200' N line, 300' E line

QUADRANGLE: VERMONT LONGITUDE: -90.430206 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.363679 DATE COLLECTED: 7 / 0 / 1916

SURFACE ELEVATION (FT.): 702.0 LOGGED (FT.): 1302.0 LOG TYPE: Drillers Log

SOURCE: SEWELL WELL CO. WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.0			UNCONSOLIDATED	99.0	0.0	
603.0	CARBONDALE	FRANCIS CREEK	SHALE	31.0	99.0	
572.0	CARBONDALE	COLCHESTER	COAL	3.0	130.0	BASE OF CARBONDALE
569.0	SPOON		UNDERCLAY	7.0	133.0	
562.0	SPOON		LIMESTONE	10.0	140.0	DARK
552.0	SPOON		SHALE	10.0	150.0	DK,"SOAPSTONE"
542.0	SPOON		LIMESTONE	5.0	160.0	
537.0	SPOON		BLACK SHALE	10.0	165.0	BK,"SOAPSTONE"
527.0	SPOON		LIMESTONE	5.0	175.0	DARK
522.0	SPOON		BLACK SHALE	2.0	180.0	FISSILE
520.0	SPOON	SEVILLE	LIMESTONE	18.0	182.0	
502.0	SPOON		SHALE	3.0	200.0	BS SPOON,DK
499.0	ABBOTT	BERNADOTTE	SANDSTONE	7.0	203.0	BASE OF PENNSYLVANIAN
492.0			ROCK	1092.0	210.0	MISSISSIPPIAN TO ORDOVICIAN

MAPID: 05786775000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 7 QUARTERS/FOOTAGES: 660' S line, 0' E line of NW SE

QUADRANGLE: VERMONT LONGITUDE: -90.434336 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.34026 DATE COLLECTED: 8 / 12 / 1974

SURFACE ELEVATION (FT.): 658.6 LOGGED (FT.): 118.0 LOG TYPE: Drillers Log

SOURCE: AMAX 3280 WELL TYPE: Coal Test

COMMENT: SUNSPOT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
658.6	PLEISTOCENE		CLAY	18.0	0.0	
640.6	PLEISTOCENE		CLAY	49.3	18.0	
591.3	CARBONDALE		COAL	2.3	67.3	TOP ERODED
589.1	CARBONDALE		GRAY SHALE	14.2	69.5	
574.9	TRADEWATER		LIMESTONE	1.2	83.7	
573.8	TRADEWATER		GRAY SHALE	7.2	84.8	
566.6	TRADEWATER		GRAY SHALE	2.5	92.0	
564.1	TRADEWATER		GRAY SHALE	3.5	94.5	
560.6	TRADEWATER		DARK SHALE	13.0	98.0	
547.6	TRADEWATER	ROCK ISLAND	COAL	2.5	111.0	
545.1	TRADEWATER		GRAY SHALE	4.5	113.5	

MAPID: 05786555000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 8 QUARTERS/FOOTAGES: 1' N line, 660' E line of SE SE

QUADRANGLE: VERMONT LONGITUDE: -90.412947 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.338594 DATE COLLECTED: 7 / 6 / 1961

SURFACE ELEVATION (FT.): 667.5 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE B266 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.5	PLEISTOCENE		UNCONSOLIDATED	24.0	0.0	
643.5	PLEISTOCENE		CLAY	40.0	24.0	
603.5	CARBONDALE	COLCHESTER	COAL	1.1	64.0	GOOD; TOP ERODED
602.4	CARBONDALE		UNDERCLAY	1.9	65.1	

MAPID: 05700012000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 9 QUARTERS/FOOTAGES: NE

QUADRANGLE: IPAVA LONGITUDE: -90.396022 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.345768 DATE COLLECTED:

SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 44.3 LOG TYPE: Drillers Log

SOURCE: SCRIPPS COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.0			UNCONSOLIDATED	24.5	0.0	
585.5	CARBONDALE	PURINGTON	SHALE	8.1	24.5	
577.4	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.0	32.6	FISSILE
574.4	CARBONDALE		LIMESTONE CONCRETION	0.3	35.6	"BLDR"
574.2	CARBONDALE	COLCHESTER	COAL	5.0	35.8	BASE OF CARBONDALE
569.2	SPOON		UNDERCLAY	3.4	40.8	

MAPID: 05786554000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 9 QUARTERS/FOOTAGES: 1' S line, 1' W line of SE SE

QUADRANGLE: VERMONT LONGITUDE: -90.39635 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.334838 DATE COLLECTED: 2 / 21 / 1966

SURFACE ELEVATION (FT.): 601.3 LOGGED (FT.): 30.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE B223 WELL TYPE: Coal Test

COMMENT: NE VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
601.3	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0	
598.3	PLEISTOCENE		CLAY	7.0	3.0	
591.3	CARBONDALE		GRAY SHALE	16.0	10.0	SOFT
575.3	CARBONDALE	COLCHESTER	COAL	2.3	26.0	GOOD
573.0	CARBONDALE		UNDERCLAY	1.8	28.3	

MAPID: 05724694000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 10 QUARTERS/FOOTAGES: 1625' S line, 2390' E line
 QUADRANGLE: VERMONT LONGITUDE: -90.380846 GEOLOGIST: J. MCBETH
 CONFIDENTIAL: N LATITUDE: 40.339214 DATE COLLECTED: 11 / 7 / 1977
 SURFACE ELEVATION (FT.): 646.2 LOGGED (FT.): 67.9 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. X255HM WELL TYPE: Coal Test
 COMMENT: PERMIT 26; SUNSPOT MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.2	PLEISTOCENE		SANDY CLAY	34.0	0.0	
612.2	CARBONDALE	FRANCIS CREEK	SHALE	26.0	34.0	DARK GRAY
586.2	CARBONDALE	COLCHESTER	COAL	1.9	60.0	
584.3	CARBONDALE		UNDERCLAY	0.8	61.9	
583.5	CARBONDALE		SHALE	5.2	62.7	LIGHT GRAY

MAPID: 05724695000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 10 QUARTERS/FOOTAGES: 1591' S line, 2925' W line
 QUADRANGLE: VERMONT LONGITUDE: -90.380903 GEOLOGIST: J. MCBETH
 CONFIDENTIAL: N LATITUDE: 40.33912 DATE COLLECTED: 3 / 1 / 1978
 SURFACE ELEVATION (FT.): 645.7 LOGGED (FT.): 111.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. X255KG WELL TYPE: Coal Test
 COMMENT: PERMIT 26; SUNSPOT MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.7	PLEISTOCENE		CLAY	23.0	0.0	
622.7	PLEISTOCENE		SAND & GRAVEL	4.0	23.0	
618.7	CARBONDALE	FRANCIS CREEK	GRAY SHALE	31.4	27.0	
587.3	CARBONDALE	COLCHESTER	COAL	1.9	58.4	
585.4	CARBONDALE		UNDERCLAY	2.7	60.3	
582.7	CARBONDALE		GRAY SHALE	4.6	63.0	
578.1	CARBONDALE		SANDSTONE	1.1	67.6	
577.0	CARBONDALE		SANDY SHALE	14.6	68.7	
562.4	CARBONDALE		GRAY SHALE	1.9	83.3	
560.5			LIMESTONE	2.2	85.2	
558.3			GRAY SHALE	4.7	87.4	
553.6			LIMESTONE	1.1	92.1	
552.5			GRAY SHALE	4.8	93.2	
547.7			SHALE	0.8	98.0	DARK GRAY
546.9			GRAY SHALE	11.4	98.8	
535.5			LIMESTONE	0.8	110.2	

MAPID: 05724696000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 10 QUARTERS/FOOTAGES: 1330' S line, 2880' W line

QUADRANGLE: VERMONT LONGITUDE: -90.381088 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.338401 DATE COLLECTED: 9 / 19 / 1975

SURFACE ELEVATION (FT.): 635.2 LOGGED (FT.): 59.0 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. X255NB WELL TYPE: Coal Test

COMMENT: PERMIT 26; SUNSPOT MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.2	PLEISTOCENE		SILT	1.0	0.0	
634.2	PLEISTOCENE		CLAY	5.0	1.0	
629.2	PLEISTOCENE		SAND	23.0	6.0	
606.2	CARBONDALE	FRANCIS CREEK	GRAY SHALE	24.5	29.0	
581.7	CARBONDALE	COLCHESTER	COAL	2.2	53.5	
579.5	CARBONDALE		UNDERCLAY	2.3	55.7	
577.2	CARBONDALE		GRAY SHALE	1.0	58.0	

MAPID: 05786512000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 10 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SW

QUADRANGLE: VERMONT LONGITUDE: -90.391594 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.334791 DATE COLLECTED: 2 / 25 / 1966

SURFACE ELEVATION (FT.): 654.6 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE X201 WELL TYPE: Coal Test

COMMENT: NE VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.6	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
647.6	PLEISTOCENE		CLAY	13.0	7.0	
634.6	PLEISTOCENE		CLAY	20.0	20.0	
614.6	CARBONDALE		GRAY SHALE	34.0	40.0	SOFT
580.6	CARBONDALE	COLCHESTER	COAL	2.3	74.0	GOOD
578.3	CARBONDALE		UNDERCLAY	1.8	76.3	

MAPID: 05724697000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 11 QUARTERS/FOOTAGES: 2968' S line, 1370' W line
 QUADRANGLE: IPAVA LONGITUDE: -90.367246 GEOLOGIST: J. MCBETH
 CONFIDENTIAL: N LATITUDE: 40.342819 DATE COLLECTED: 11 / 2 / 1977
 SURFACE ELEVATION (FT.): 648.6 LOGGED (FT.): 91.7 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. X312IP WELL TYPE: Coal Test
 COMMENT: PERMIT 26; SUNSPOT MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.6	PLEISTOCENE		SANDY CLAY	24.0	0.0	
624.6	PLEISTOCENE		CLAY	6.0	24.0	SANDY
618.6	CARBONDALE		SHALE	10.5	30.0	
608.1	CARBONDALE	JAKE CREEK	SANDSTONE	2.0	40.5	
606.1	CARBONDALE	FRANCIS CREEK	SHALE	35.3	42.5	DARK GRAY
570.8	CARBONDALE	FRANCIS CREEK	SHALE	6.1	77.8	LIGHT GRAY
564.7	CARBONDALE	COLCHESTER	COAL	1.9	83.9	
562.8	CARBONDALE		UNDERCLAY	2.6	85.8	
560.2	CARBONDALE		SHALE	3.3	88.4	LIGHT GRAY

MAPID: 05724698000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 11 QUARTERS/FOOTAGES:
 QUADRANGLE: IPAVA LONGITUDE: -90.366915 GEOLOGIST: J. MCBETH
 CONFIDENTIAL: N LATITUDE: 40.345534 DATE COLLECTED: 11 / 28 / 1977
 SURFACE ELEVATION (FT.): 638.0 LOGGED (FT.): 98.6 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. X361 WELL TYPE: Coal Test
 COMMENT: PERMIT 26; SUNSPOT MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
638.0	PLEISTOCENE		SANDY CLAY	12.0	0.0	
626.0	CARBONDALE		SHALE	15.5	12.0	DARK
610.5	CARBONDALE	JAKE CREEK	SANDSTONE	2.0	27.5	
608.5	CARBONDALE	FRANCIS CREEK	SHALE	58.9	29.5	DARK GRAY
549.6	CARBONDALE	COLCHESTER	COAL	2.6	88.4	
547.0	CARBONDALE		BLACK SHALE	4.0	91.0	
543.0	CARBONDALE		UNDERCLAY	3.6	95.0	

MAPID: 05786513000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 11 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SW
 QUADRANGLE: IPAVA LONGITUDE: -90.372279 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.334686 DATE COLLECTED: 6 / 12 / 1961
 SURFACE ELEVATION (FT.): 644.2 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE X209 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.2	PLEISTOCENE		UNCONSOLIDATED	35.0	0.0	
609.2	CARBONDALE		GRAY SHALE	41.3	35.0	
567.9	CARBONDALE	COLCHESTER	COAL	1.8	76.3	GOOD
566.2	CARBONDALE		UNDERCLAY	2.0	78.0	

MAPID: 05786765000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 11 QUARTERS/FOOTAGES: 320' S line, 345' E line of SW SW
 QUADRANGLE: IPAVA LONGITUDE: -90.368723 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.335526 DATE COLLECTED: 10 / 19 / 1978
 SURFACE ELEVATION (FT.): 632.7 LOGGED (FT.): 122.0 LOG TYPE: Drillers Log
 SOURCE: AMAX X210A WELL TYPE: Coal Test
 COMMENT: NE SUNSPOT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
632.7	PLEISTOCENE		CLAY	21.0	0.0	
611.7	PLEISTOCENE		UNCONSOLIDATED	3.0	21.0	
608.7	PLEISTOCENE			3.0	24.0	
605.7	CARBONDALE		SANDY SHALE	33.5	27.0	
572.2	CARBONDALE	COLCHESTER	COAL	2.3	60.5	
569.9	CARBONDALE		UNDERCLAY	3.2	62.8	
566.7	TRADEWATER		MICACEOUS SHALE	24.2	66.0	
542.5	TRADEWATER		LIMESTONE	1.3	90.2	SOFT
541.2	TRADEWATER		MICACEOUS SHALE	16.5	91.5	
524.7	TRADEWATER		DARK SHALE	2.3	108.0	
522.4	TRADEWATER		COAL	1.0	110.3	#1 OR DELONG
521.4	TRADEWATER		DARK SHALE	10.7	111.3	

MAPID: 05786766000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 11 QUARTERS/FOOTAGES: SW SE

QUADRANGLE: IPAVA LONGITUDE: -90.360289 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.336376 DATE COLLECTED: 8 / 18 / 1961

SURFACE ELEVATION (FT.): 635.3 LOGGED (FT.): 82.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE X213 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.3	PLEISTOCENE		CLAY	11.0	0.0	
624.3	PLEISTOCENE		CLAY	13.0	11.0	
611.3	PLEISTOCENE		CLAY	11.0	24.0	
600.3	CARBONDALE		SHALE	21.0	35.0	SOFT
579.3	CARBONDALE		SHALE	22.0	56.0	HARD
557.3	CARBONDALE	COLCHESTER	COAL	2.3	78.0	GOOD
555.0	CARBONDALE		UNDERCLAY	1.8	80.3	

MAPID: 05786901000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 11 QUARTERS/FOOTAGES: 330' N line, 1055' E line of NE SW

QUADRANGLE: IPAVA LONGITUDE: -90.366382 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.340982 DATE COLLECTED: 3 / 1 / 1978

SURFACE ELEVATION (FT.): 634.4 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AMAX X286HP WELL TYPE: Coal Test

COMMENT: SUNSPOT NE BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
634.4	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
627.4	PLEISTOCENE		SANDY CLAY	4.0	7.0	
623.4	PLEISTOCENE		SAND & GRAVEL	3.0	11.0	
620.4	CARBONDALE		GRAY SHALE	41.8	14.0	
578.6	CARBONDALE	COLCHESTER	COAL	1.8	55.8	
576.8	CARBONDALE		UNDERCLAY	2.4	57.6	
574.4	CARBONDALE		GRAY SHALE	8.0	60.0	

MAPID: 05786946000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 12 QUARTERS/FOOTAGES: SW NW

QUADRANGLE: IPAVA LONGITUDE: -90.350521 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.343519 DATE COLLECTED: 10 / 3 / 1961

SURFACE ELEVATION (FT.): 646.8 LOGGED (FT.): 79.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE X319 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.8	PLEISTOCENE		CLAY	9.0	0.0	
637.8	PLEISTOCENE		CLAY	12.0	9.0	
625.8	PLEISTOCENE		CLAY	17.0	21.0	
608.8	CARBONDALE		SANDSTONE	5.0	38.0	HARD
603.8	CARBONDALE		ROCK	3.0	43.0	
600.8	CARBONDALE		SHALE	29.0	46.0	HARD
571.8	CARBONDALE	COLCHESTER	COAL	2.1	75.0	GOOD
569.7	CARBONDALE		UNDERCLAY	1.9	77.1	

MAPID: 05786947000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 12 QUARTERS/FOOTAGES: SW NE

QUADRANGLE: IPAVA LONGITUDE: -90.340926 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.343359 DATE COLLECTED: 4 / 10 / 1961

SURFACE ELEVATION (FT.): 644.9 LOGGED (FT.): 89.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE X371 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.9	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
637.9	PLEISTOCENE		CLAY	11.0	7.0	
626.9	PLEISTOCENE		CLAY	15.0	18.0	
611.9	CARBONDALE		SANDY SHALE	53.0	33.0	
558.9	CARBONDALE	COLCHESTER	COAL	1.8	86.0	GOOD
557.1	CARBONDALE		UNDERCLAY	1.2	87.8	

MAPID: 05786510000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 13 QUARTERS/FOOTAGES: 660' N line, 1' E line of SE SW

QUADRANGLE: IPAVA LONGITUDE: -90.343926 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.321319 DATE COLLECTED: 1 / 2 / 1961

SURFACE ELEVATION (FT.): 616.6 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE X46 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 24

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
616.6	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
606.6	PLEISTOCENE		CLAY	5.0	10.0	
601.6	PLEISTOCENE		CLAY	9.0	15.0	
592.6	CARBONDALE		SHALE	4.0	24.0	
588.6	CARBONDALE		SHALE	40.0	28.0	SOFT
548.6	CARBONDALE	COLCHESTER	COAL	2.2	68.0	GOOD
546.4	CARBONDALE		UNDERCLAY	1.8	70.2	

MAPID: 05786758000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 13 QUARTERS/FOOTAGES: 600' N line, 600' W line of SE SW

QUADRANGLE: IPAVA LONGITUDE: -90.346506 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.321541 DATE COLLECTED: 10 / 10 / 1975

SURFACE ELEVATION (FT.): 626.4 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log

SOURCE: AMAX X45 WELL TYPE: Coal Test

COMMENT: IPAVA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
626.4	PLEISTOCENE		SILT	2.0	0.0	
624.4	PLEISTOCENE		CLAY	8.0	2.0	
616.4	PLEISTOCENE		UNCONSOLIDATED	18.0	10.0	
598.4	CARBONDALE		SANDY SHALE	40.1	28.0	
558.3	CARBONDALE	COLCHESTER	COAL	2.4	68.1	
555.9	CARBONDALE		UNDERCLAY	2.5	70.5	
553.4	CARBONDALE		GRAY SHALE	2.0	73.0	

MAPID: 05786759000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 13 QUARTERS/FOOTAGES: 660' S line, 660' E line of SE SE
 QUADRANGLE: IPAVA LONGITUDE: -90.336795 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.321072 DATE COLLECTED: 1 / 5 / 1961
 SURFACE ELEVATION (FT.): 626.2 LOGGED (FT.): 73.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE X49 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
626.2	PLEISTOCENE		CLAY	15.0	0.0	
611.2	PLEISTOCENE		CLAY	10.0	15.0	
601.2	PLEISTOCENE		CLAY	3.0	25.0	
598.2	CARBONDALE		SHALE	20.0	28.0	SOFT
578.2	CARBONDALE		SHALE	22.0	48.0	HARD
556.2	CARBONDALE	COLCHESTER	COAL	1.8	70.0	GOOD
554.4	CARBONDALE		UNDERCLAY	1.2	71.8	

MAPID: 05786763000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 13 QUARTERS/FOOTAGES: 660' S line, 660' W line of SE NE
 QUADRANGLE: IPAVA LONGITUDE: -90.336622 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.328526 DATE COLLECTED: 1 / 11 / 1961
 SURFACE ELEVATION (FT.): 579.2 LOGGED (FT.): 40.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE X149 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
579.2	PLEISTOCENE		CLAY	3.0	0.0	
576.2	PLEISTOCENE		CLAY	7.0	3.0	
569.2	CARBONDALE		DARK SHALE	26.0	10.0	SOFT
543.2	CARBONDALE	COLCHESTER	COAL	2.0	36.0	GOOD
541.2	CARBONDALE		UNDERCLAY	2.0	38.0	

MAPID: 05786509000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 14 QUARTERS/FOOTAGES: 660' N line, 660' E line of SW SW
 QUADRANGLE: IPAVA LONGITUDE: -90.370199 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.321756 DATE COLLECTED: 6 / 7 / 1961
 SURFACE ELEVATION (FT.): 638.9 LOGGED (FT.): 83.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE X35 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
638.9	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
628.9	PLEISTOCENE		CLAY & GRAVEL	11.0	10.0	
617.9	PLEISTOCENE		CLAY	33.0	21.0	
584.9	CARBONDALE		GRAY SHALE	25.0	54.0	
559.9	CARBONDALE	COLCHESTER	COAL	2.5	79.0	GOOD
557.4	CARBONDALE		UNDERCLAY	1.5	81.5	

MAPID: 05786761000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 14 QUARTERS/FOOTAGES: 0' S line, 610' E line of SW NW
 QUADRANGLE: IPAVA LONGITUDE: -90.369882 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.327266 DATE COLLECTED: 6 / 6 / 1961
 SURFACE ELEVATION (FT.): 634.1 LOGGED (FT.): 79.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE X110 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
634.1	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
628.1	PLEISTOCENE		CLAY	47.0	6.0	
581.1	CARBONDALE		GRAY SHALE	22.3	53.0	
558.8	CARBONDALE	COLCHESTER	COAL	2.3	75.3	GOOD
556.4	CARBONDALE		UNDERCLAY	1.3	77.7	

MAPID: 05786762000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 14 QUARTERS/FOOTAGES: 660' S line, 660' W line of SW NE
 QUADRANGLE: IPAVA LONGITUDE: -90.360482 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.328963 DATE COLLECTED: 6 / 2 / 1961
 SURFACE ELEVATION (FT.): 644.0 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE X139 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.0	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0	
632.0	PLEISTOCENE		CLAY & GRAVEL	13.0	12.0	
619.0	PLEISTOCENE		CLAY	14.0	25.0	
605.0	CARBONDALE		GRAY SHALE	42.5	39.0	
562.5	CARBONDALE	COLCHESTER	COAL	2.4	81.5	GOOD
560.1	CARBONDALE		UNDERCLAY	2.1	83.9	
558.0	CARBONDALE		GRAY SHALE	2.0	86.0	

MAPID: 05722006000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 15 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SW
 QUADRANGLE: VERMONT LONGITUDE: -90.387042 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.320059 DATE COLLECTED: 5 / 9 / 1960
 SURFACE ELEVATION (FT.): 593.8 LOGGED (FT.): 40.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
593.8			UNCONSOLIDATED	19.0	0.0	
574.8	CARBONDALE	FRANCIS CREEK	SHALE	17.0	19.0	
557.8	CARBONDALE	COLCHESTER	COAL	2.6	36.0	BASE OF CARBONDALE
555.2	SPOON		UNDERCLAY	1.4	38.6	

MAPID: 0572368000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 15 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW
 QUADRANGLE: VERMONT LONGITUDE: -90.382251 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.320012 DATE COLLECTED: 7 / 19 / 1974
 SURFACE ELEVATION (FT.): 587.6 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
587.6			UNCONSOLIDATED	36.0	0.0	
551.6			SHALE	50.3	36.0	SDY TOP 24 FT
501.3	SPOON	SEVILLE	LIMESTONE	1.4	86.3	
499.8	SPOON		SHALE	0.5	87.8	
499.3	SPOON	ROCK ISLAND	COAL	3.8	88.3	
495.5	SPOON		UNDERCLAY	5.9	92.1	

MAPID: 05723692000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 15 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SW
 QUADRANGLE: VERMONT LONGITUDE: -90.391773 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.323779 DATE COLLECTED: 5 / 5 / 1960
 SURFACE ELEVATION (FT.): 636.3 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
636.3			UNCONSOLIDATED	53.0	0.0	
583.3	CARBONDALE	FRANCIS CREEK	SANDY SHALE	29.0	53.0	
554.3	CARBONDALE	COLCHESTER	COAL	2.3	82.0	BASE OF CARBONDALE
552.0	SPOON		UNDERCLAY	1.8	84.3	

MAPID: 05723698000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 15 QUARTERS/FOOTAGES: SW
 QUADRANGLE: VERMONT LONGITUDE: -90.386974 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.323735 DATE COLLECTED: 5 / 9 / 1960
 SURFACE ELEVATION (FT.): 606.7 LOGGED (FT.): 57.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
606.7			UNCONSOLIDATED	10.0	0.0	
596.7	CARBONDALE	FRANCIS CREEK	SANDY SHALE	43.0	10.0	
553.7	CARBONDALE	COLCHESTER	COAL	2.4	53.0	BASE OF CARBONDALE
551.3	SPOON		UNDERCLAY	1.6	55.4	

MAPID: 05723705000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 15 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW

QUADRANGLE: VERMONT LONGITUDE: -90.391716 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.327449 DATE COLLECTED: 5 / 5 / 1960

SURFACE ELEVATION (FT.): 645.1 LOGGED (FT.): 93.0 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.1			UNCONSOLIDATED	50.0	0.0	
595.1	CARBONDALE	FRANCIS CREEK	SHALE	39.0	50.0	SDY LWR 24 FT
556.1	CARBONDALE	COLCHESTER	COAL	2.4	89.0	BASE OF CARBONDALE
553.7	SPOON		UNDERCLAY	1.6	91.4	

MAPID: 05723712000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 15 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE SW

QUADRANGLE: VERMONT LONGITUDE: -90.386905 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.327411 DATE COLLECTED: 5 / 5 / 1960

SURFACE ELEVATION (FT.): 648.7 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.7			UNCONSOLIDATED	54.0	0.0	
594.7	CARBONDALE	FRANCIS CREEK	SANDY SHALE	22.0	54.0	
572.7	CARBONDALE	COLCHESTER	COAL	2.2	76.0	BASE OF CARBONDALE
570.5	SPOON		ROCK	1.8	78.2	

MAPID: 05723719000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 15 QUARTERS/FOOTAGES:

QUADRANGLE: VERMONT LONGITUDE: -90.382095 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.327375 DATE COLLECTED: 5 / 9 / 1960

SURFACE ELEVATION (FT.): 651.1 LOGGED (FT.): 89.0 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.1			UNCONSOLIDATED	44.0	0.0	
607.1	CARBONDALE	FRANCIS CREEK	SANDY SHALE	41.0	44.0	
566.1	CARBONDALE	COLCHESTER	COAL	2.2	85.0	BASE OF CARBONDALE
563.9	SPOON		UNDERCLAY	1.8	87.2	

MAPID: 05723727000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 15 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE SE
 QUADRANGLE: VERMONT LONGITUDE: -90.377285 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.327336 DATE COLLECTED: 8 / 25 / 1960
 SURFACE ELEVATION (FT.): 631.9 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
631.9			UNCONSOLIDATED	48.0	0.0	
583.9	CARBONDALE	FRANCIS CREEK	SANDY SHALE	20.0	48.0	
563.9	CARBONDALE	COLCHESTER	COAL	2.2	68.0	BASE OF CARBONDALE
561.7	SPOON		UNDERCLAY	1.8	70.2	

MAPID: 05723733000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 15 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE
 QUADRANGLE: IPAVA LONGITUDE: -90.372475 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.3273 DATE COLLECTED: 8 / 25 / 1960
 SURFACE ELEVATION (FT.): 630.6 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.6			UNCONSOLIDATED	30.0	0.0	
600.6	CARBONDALE	FRANCIS CREEK	SHALE	42.0	30.0	
558.6	CARBONDALE	COLCHESTER	COAL	2.3	72.0	
556.3	SPOON		UNDERCLAY	1.7	74.3	

MAPID: 05723747000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 15 QUARTERS/FOOTAGES: 330' N line, 10' E line of SE NW
 QUADRANGLE: VERMONT LONGITUDE: -90.382073 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.330146 DATE COLLECTED: 10 / 29 / 1975
 SURFACE ELEVATION (FT.): 646.2 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.2			UNCONSOLIDATED	63.0	0.0	
583.2	CARBONDALE	FRANCIS CREEK	SHALE	13.9	63.0	
569.3	CARBONDALE	COLCHESTER	COAL	2.4	76.9	BASE OF CARBONDALE
566.9	SPOON		UNDERCLAY	1.7	79.3	

MAPID: 05723755000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 15 QUARTERS/FOOTAGES: 330' N line, 0' W line of SE NE

QUADRANGLE: VERMONT LONGITUDE: -90.377223 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.330113 DATE COLLECTED: 10 / 30 / 1975

SURFACE ELEVATION (FT.): 641.1 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
641.1			UNCONSOLIDATED	32.0	0.0	
609.1	CARBONDALE	FRANCIS CREEK	SHALE	36.5	32.0	
572.6	CARBONDALE	COLCHESTER	COAL	2.3	68.5	BASE OF CARBONDALE
570.3	SPOON		UNDERCLAY	2.2	70.8	
568.1	SPOON		SHALE	5.0	73.0	

MAPID: 05723759000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 15 QUARTERS/FOOTAGES: 0' N line, 0' W line of SE NW

QUADRANGLE: VERMONT LONGITUDE: -90.386837 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.331087 DATE COLLECTED: 1 / 29 / 1975

SURFACE ELEVATION (FT.): 648.7 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.7			UNCONSOLIDATED	54.0	0.0	
594.7	CARBONDALE	FRANCIS CREEK	SHALE	21.2	54.0	
573.5	CARBONDALE	COLCHESTER	COAL	2.1	75.2	BS COLCHESTER
571.4	SPOON		UNDERCLAY	5.7	77.3	
565.7	SPOON		SHALE	5.0	83.0	

MAPID: 05786511000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: FULTON **TWP/RNG:** 4N 1E **SECTION:** 15 **QUARTERS/FOOTAGES:** 1' S line, 1' W line of NW SW
QUADRANGLE: VERMONT **LONGITUDE:** -90.39177 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.323779 **DATE COLLECTED:** 5 / 5 / 1960
SURFACE ELEVATION (FT.): 636.3 **LOGGED (FT.):** 86.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE X51 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
636.3	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0
625.3	PLEISTOCENE		CLAY	12.0	11.0
613.3	PLEISTOCENE		CLAY	30.0	23.0
583.3	CARBONDALE		SANDY SHALE	29.0	53.0
554.3	CARBONDALE	COLCHESTER	COAL	2.3	82.0
552.0	CARBONDALE		UNDERCLAY	1.8	84.3

MAPID: 05722007000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 4N 1E **SECTION:** 16 **QUARTERS/FOOTAGES:** 0' S line, 0' E line of SW SW SE
QUADRANGLE: VERMONT **LONGITUDE:** -90.399024 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.320173 **DATE COLLECTED:** 11 / 13 / 1962
SURFACE ELEVATION (FT.): 635.6 **LOGGED (FT.):** 81.0 **LOG TYPE:** Drillers Log
SOURCE: AMAX COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
635.6			UNCONSOLIDATED	43.0	0.0
592.6	CARBONDALE	FRANCIS CREEK	SHALE	34.0	43.0
558.6	CARBONDALE	COLCHESTER	COAL	2.3	77.0 BASE OF CARBONDALE
556.3	SPOON		UNDERCLAY	1.7	79.3

MAPID: 05723589000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 4N 1E **SECTION:** 16 **QUARTERS/FOOTAGES:** 0' S line, 0' W line of SE SE SE
QUADRANGLE: VERMONT **LONGITUDE:** -90.394228 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.320129 **DATE COLLECTED:** 11 / 14 / 1962
SURFACE ELEVATION (FT.): 612.4 **LOGGED (FT.):** 68.0 **LOG TYPE:** Drillers Log
SOURCE: AMAX COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
612.4			UNCONSOLIDATED	31.0	0.0
581.4	CARBONDALE	FRANCIS CREEK	SHALE	33.0	31.0
548.4	CARBONDALE	COLCHESTER	COAL	2.3	64.0 BASE OF CARBONDALE
546.1	SPOON		UNDERCLAY	1.7	66.3

MAPID: 05723608000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 16 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SW
 QUADRANGLE: VERMONT LONGITUDE: -90.410913 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.323954 DATE COLLECTED: 5 / 3 / 1960
 SURFACE ELEVATION (FT.): 657.2 LOGGED (FT.): 99.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
657.2			UNCONSOLIDATED	47.0	0.0	
610.2	CARBONDALE	FRANCIS CREEK	SANDY SHALE	48.0	47.0	
562.2	CARBONDALE	COLCHESTER	COAL	2.3	95.0	BASE OF CARBONDALE
559.9	SPOON		UNDERCLAY	1.7	97.3	

MAPID: 05723610000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 16 QUARTERS/FOOTAGES: SW
 QUADRANGLE: VERMONT LONGITUDE: -90.406128 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.32391 DATE COLLECTED: 6 / 3 / 1959
 SURFACE ELEVATION (FT.): 646.0 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.0			UNCONSOLIDATED	45.0	0.0	
601.0	CARBONDALE	FRANCIS CREEK	SHALE	42.0	45.0	
559.0	CARBONDALE	COLCHESTER	COAL	2.7	87.0	BASE OF CARBONDALE
556.3	SPOON		UNDERCLAY	2.3	89.7	
554.0	SPOON		SANDY SHALE	5.0	92.0	

MAPID: 05723612000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 16 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SE
 QUADRANGLE: VERMONT LONGITUDE: -90.401343 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.323867 DATE COLLECTED: 5 / 3 / 1960
 SURFACE ELEVATION (FT.): 596.9 LOGGED (FT.): 42.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
596.9			UNCONSOLIDATED	10.0	0.0	
586.9	CARBONDALE	FRANCIS CREEK	SHALE	28.0	10.0	
558.9	CARBONDALE	COLCHESTER	COAL	2.3	38.0	BASE OF CARBONDALE
556.6	SPOON		UNDERCLAY	1.7	40.3	

MAPID: 05723628000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 16 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW
 QUADRANGLE: VERMONT LONGITUDE: -90.410817 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.327627 DATE COLLECTED: 5 / 22 / 1959
 SURFACE ELEVATION (FT.): 635.8 LOGGED (FT.): 77.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.8			UNCONSOLIDATED	30.0	0.0	
605.8	CARBONDALE	FRANCIS CREEK	SHALE	33.0	30.0	BLUE
572.8	CARBONDALE	COLCHESTER	COAL	2.5	63.0	BASE OF CARBONDALE
570.3	SPOON		UNDERCLAY	2.5	65.5	
567.8	SPOON	ISABEL	SANDSTONE	9.0	68.0	

MAPID: 05723630000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 16 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE SW
 QUADRANGLE: VERMONT LONGITUDE: -90.406042 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.327581 DATE COLLECTED: 6 / 3 / 1959
 SURFACE ELEVATION (FT.): 657.2 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
657.2			UNCONSOLIDATED	68.0	0.0	
589.2	CARBONDALE	FRANCIS CREEK	SHALE	14.5	68.0	SDY TOP 8 FT
574.7	CARBONDALE	COLCHESTER	COAL	1.8	82.5	BASE OF CARBONDALE
572.9	SPOON		UNDERCLAY	2.7	84.3	

MAPID: 05723632000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 16 QUARTERS/FOOTAGES:
 QUADRANGLE: VERMONT LONGITUDE: -90.401264 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.327537 DATE COLLECTED: 5 / 12 / 1960
 SURFACE ELEVATION (FT.): 647.5 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
647.5			UNCONSOLIDATED	78.0	0.0	
569.5	CARBONDALE	FRANCIS CREEK	SHALE	8.0	78.0	
561.5	CARBONDALE	COLCHESTER	COAL	2.3	86.0	BASE OF CARBONDALE
559.2	SPOON		UNDERCLAY	1.8	88.3	

MAPID: 05723639000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 16 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE SE
 QUADRANGLE: VERMONT LONGITUDE: -90.39649 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.327494 DATE COLLECTED: 5 / 18 / 1960
 SURFACE ELEVATION (FT.): 594.0 LOGGED (FT.): 30.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
594.0			UNCONSOLIDATED	19.0	0.0	
575.0	CARBONDALE	FRANCIS CREEK	SHALE	7.0	19.0	
568.0	CARBONDALE	COLCHESTER	COAL	2.3	26.0	BASE OF CARBONDALE
565.7	SPOON		UNDERCLAY	1.7	28.3	

MAPID: 05723653000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 16 QUARTERS/FOOTAGES: 990' S line, 0' E line of NW
 QUADRANGLE: VERMONT LONGITUDE: -90.40121 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.330267 DATE COLLECTED: 6 / 1 / 1960
 SURFACE ELEVATION (FT.): 613.2 LOGGED (FT.): 43.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
613.2			UNCONSOLIDATED	9.0	0.0	
604.2	CARBONDALE	FRANCIS CREEK	SHALE	30.0	9.0	SDY LWR 20 FT
574.2	CARBONDALE	COLCHESTER	COAL	2.2	39.0	BASE OF CARBONDALE
572.0	SPOON		UNDERCLAY	1.8	41.2	

MAPID: 05723660000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 16 QUARTERS/FOOTAGES: 40' N line, 130' W line of SW NW
 QUADRANGLE: VERMONT LONGITUDE: -90.410254 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.331186 DATE COLLECTED: 5 / 12 / 1960
 SURFACE ELEVATION (FT.): 633.6 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.6			UNCONSOLIDATED	25.0	0.0	
608.6	CARBONDALE	FRANCIS CREEK	SHALE	31.0	25.0	
577.6	CARBONDALE	COLCHESTER	COAL	2.3	56.0	
575.3	SPOON		UNDERCLAY	1.8	58.3	

MAPID: 05723662000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 16 QUARTERS/FOOTAGES: NW

QUADRANGLE: VERMONT LONGITUDE: -90.405953 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.331255 DATE COLLECTED: 5 / 12 / 1960

SURFACE ELEVATION (FT.): 662.8 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.8			UNCONSOLIDATED	43.0	0.0	
619.8	CARBONDALE	FRANCIS CREEK	SANDY SHALE	39.0	43.0	
580.8	CARBONDALE	COLCHESTER	COAL	2.3	82.0	BASE OF CARBONDALE
578.5	SPOON		UNDERCLAY	1.8	84.3	

MAPID: 05723665000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 16 QUARTERS/FOOTAGES: NE

QUADRANGLE: VERMONT LONGITUDE: -90.396422 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.331164 DATE COLLECTED: 2 / 18 / 1966

SURFACE ELEVATION (FT.): 597.1 LOGGED (FT.): 24.0 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
597.1			UNCONSOLIDATED	13.0	0.0	
584.1	CARBONDALE	FRANCIS CREEK	SHALE	7.0	13.0	
577.1	CARBONDALE	COLCHESTER	COAL	2.4	20.0	BASE OF CARBONDALE
574.7	SPOON		UNDERCLAY	1.6	22.4	

MAPID: 05723667000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 16 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NE

QUADRANGLE: VERMONT LONGITUDE: -90.391658 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.33112 DATE COLLECTED: 2 / 25 / 1966

SURFACE ELEVATION (FT.): 654.7 LOGGED (FT.): 82.0 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.7			UNCONSOLIDATED	42.0	0.0	
612.7	CARBONDALE	FRANCIS CREEK	SHALE	36.0	42.0	
576.7	CARBONDALE	COLCHESTER	COAL	2.3	78.0	BASE OF CARBONDALE
574.4	SPOON		UNDERCLAY	1.7	80.3	

MAPID: 05723673000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 16 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE
 QUADRANGLE: VERMONT LONGITUDE: -90.401111 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.334882 DATE COLLECTED: 2 / 25 / 1966
 SURFACE ELEVATION (FT.): 650.9 LOGGED (FT.): 73.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.9			UNCONSOLIDATED	35.0	0.0	
615.9	CARBONDALE	FRANCIS CREEK	SHALE	34.0	35.0	
581.9	CARBONDALE	COLCHESTER	COAL	2.3	69.0	BASE OF CARBONDALE
579.6	SPOON		UNDERCLAY	1.8	71.3	

MAPID: 05723675000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 16 QUARTERS/FOOTAGES: 0' N line, 660' E line
 QUADRANGLE: VERMONT LONGITUDE: -90.393977 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.334811 DATE COLLECTED: 2 / 21 / 1961
 SURFACE ELEVATION (FT.): 646.1 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.1			UNCONSOLIDATED	31.0	0.0	
615.1	CARBONDALE	FRANCIS CREEK	SHALE	37.0	31.0	
578.1	CARBONDALE	COLCHESTER	COAL	2.3	68.0	BASE OF CARBONDALE
575.8	SPOON		UNDERCLAY	1.7	70.3	

MAPID: 05724742000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 16 QUARTERS/FOOTAGES: 150' N line, 498' W line of NE SE
 QUADRANGLE: VERMONT LONGITUDE: -90.394725 GEOLOGIST: D. NORTH
 CONFIDENTIAL: N LATITUDE: 40.32704 DATE COLLECTED: 3 / 22 / 1978
 SURFACE ELEVATION (FT.): 625.2 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. B996 WELL TYPE: Coal Test
 COMMENT: PERMIT 23; NORTHEAST SUNSPOT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
625.2			MINE OPENING	67.0	0.0	SPOILS
558.2	CARBONDALE		UNDERCLAY	2.0	67.0	
556.2	CARBONDALE		GREEN SHALE	6.0	69.0	

MAPID: 05724743000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 16 QUARTERS/FOOTAGES: 149' N line, 513' W line of NE SE
 QUADRANGLE: VERMONT LONGITUDE: -90.394669 GEOLOGIST: D. NORTH
 CONFIDENTIAL: N LATITUDE: 40.327182 DATE COLLECTED: 3 / 22 / 1978
 SURFACE ELEVATION (FT.): 625.8 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO B99G-1 WELL TYPE: Coal Test
 COMMENT: PERMIT 23; NORTHEAST SUNSPOT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
625.8			MINE OPENING	67.0	0.0	SPOILS
558.8	CARBONDALE		UNDERCLAY	2.0	67.0	
556.8	CARBONDALE		GRAY SHALE	6.0	69.0	

MAPID: 05786551000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 16 QUARTERS/FOOTAGES: 735' N line, 75' W line of SW NE
 QUADRANGLE: VERMONT LONGITUDE: -90.400961 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.329179 DATE COLLECTED: 11 / 13 / 1962
 SURFACE ELEVATION (FT.): 635.2 LOGGED (FT.): 66.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE B146 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.2	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
628.2	PLEISTOCENE		CLAY	11.0	7.0	
617.2	PLEISTOCENE		CLAY	9.0	18.0	
608.2	CARBONDALE		SHALE	35.0	27.0	SOFT
573.2	CARBONDALE	COLCHESTER	COAL	2.1	62.0	GOOD
571.1	CARBONDALE		UNDERCLAY	1.9	64.1	

MAPID: 05786552000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 17 QUARTERS/FOOTAGES: 1' S line, 1' E line of NW NW
 QUADRANGLE: VERMONT LONGITUDE: -90.424965 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.331161 DATE COLLECTED: 7 / 16 / 1959
 SURFACE ELEVATION (FT.): 666.7 LOGGED (FT.): 93.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE B161 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.7	PLEISTOCENE		UNCONSOLIDATED	16.0	0.0	
650.7	PLEISTOCENE		CLAY	38.0	16.0	
612.7	CARBONDALE		GRAY SHALE	34.5	54.0	
578.2	CARBONDALE	COLCHESTER	COAL	2.5	88.5	FAIR
575.7	CARBONDALE		UNDERCLAY	2.0	91.0	

MAPID: 05786839000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 17 QUARTERS/FOOTAGES: 660' S line, 745' W line of NE NE

QUADRANGLE: VERMONT LONGITUDE: -90.412749 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.333093 DATE COLLECTED: 10 / 2 / 1975

SURFACE ELEVATION (FT.): 659.6 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: AMAX B191Y WELL TYPE: Coal Test

COMMENT: SUNSPOT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.6	PLEISTOCENE		SILT	1.0	0.0	
658.6	PLEISTOCENE		CLAY	7.0	1.0	
651.6	PLEISTOCENE		UNCONSOLIDATED	72.0	8.0	
579.6	CARBONDALE	COLCHESTER	COAL	3.0	80.0	TOP ERODED
576.6	CARBONDALE		UNDERCLAY	1.0	83.0	
575.6	CARBONDALE		GRAY SHALE	4.0	84.0	

MAPID: 05786553000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 18 QUARTERS/FOOTAGES: 660' N line, 660' W line of NE NW

QUADRANGLE: VERMONT LONGITUDE: -90.441763 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.332977 DATE COLLECTED: 7 / 15 / 1959

SURFACE ELEVATION (FT.): 650.8 LOGGED (FT.): 59.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE B179 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.8	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0	
635.8	PLEISTOCENE		SAND & GRAVEL	15.0	15.0	
620.8	PLEISTOCENE		CLAY	13.0	30.0	
607.8	CARBONDALE		SHALE	11.7	43.0	
596.1	CARBONDALE	COLCHESTER	COAL	2.6	54.7	FAIR
593.5	CARBONDALE		UNDERCLAY	1.8	57.3	

MAPID: 05786749000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 18 QUARTERS/FOOTAGES: 0' N line, 0' W line of NW SE
 QUADRANGLE: VERMONT LONGITUDE: -90.439425 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.327504 DATE COLLECTED: 7 / 11 / 1961
 SURFACE ELEVATION (FT.): 568.2 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE LL105 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
568.2	PLEISTOCENE		UNCONSOLIDATED	34.0	0.0
534.2	PLEISTOCENE		SAND & GRAVEL	4.0	34.0
530.2	PLEISTOCENE		CLAY	18.0	38.0
512.2	CARBONDALE		GRAY SHALE	4.2	56.0
508.0	CARBONDALE	COLCHESTER	COAL	2.3	60.2
505.7	CARBONDALE		UNDERCLAY	2.5	62.5

MAPID: 05786764000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 18 QUARTERS/FOOTAGES: NW NW
 QUADRANGLE: VERMONT LONGITUDE: -90.446552 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.332994 DATE COLLECTED: 1 / 9 / 1960
 SURFACE ELEVATION (FT.): 584.3 LOGGED (FT.): 42.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE X175 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
584.3	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0
579.3	PLEISTOCENE		CLAY	9.0	5.0
570.3	CARBONDALE		DARK SHALE	24.0	14.0 SOFT
546.3	CARBONDALE	COLCHESTER	COAL	2.2	38.0 GOOD
544.1	CARBONDALE		UNDERCLAY	1.8	40.2

MAPID: 05786838000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 18 QUARTERS/FOOTAGES: 660' N line, 0' E line of SW SW
 QUADRANGLE: VERMONT LONGITUDE: -90.444349 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.322081 DATE COLLECTED: 7 / 23 / 1959
 SURFACE ELEVATION (FT.): 630.8 LOGGED (FT.): 59.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE B26 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.8	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
620.8	PLEISTOCENE		CLAY	26.0	10.0	
594.8	PLEISTOCENE			11.0	36.0	
583.8	CARBONDALE		GRAY SHALE	8.0	47.0	
575.8	CARBONDALE	COLCHESTER	COAL	2.4	55.0	FAIR
573.4	CARBONDALE		UNDERCLAY	1.6	57.4	

MAPID: 05786576000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 19 QUARTERS/FOOTAGES: 1' S line, 660' E line of SW SE
 QUADRANGLE: VERMONT LONGITUDE: -90.437439 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.305595 DATE COLLECTED: 6 / 23 / 1959
 SURFACE ELEVATION (FT.): 653.7 LOGGED (FT.): 101.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE C406 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.7	PLEISTOCENE		UNCONSOLIDATED	28.0	0.0	
625.7	PLEISTOCENE		CLAY	46.0	28.0	
579.7	CARBONDALE		SANDY SHALE	20.0	74.0	
559.7	CARBONDALE	COLCHESTER	COAL	2.8	94.0	GOOD
556.9	CARBONDALE		UNDERCLAY	3.2	96.8	SOFT
553.7	CARBONDALE		SANDSTONE	1.0	100.0	

MAPID: 05786792000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 19 QUARTERS/FOOTAGES: 44' S line, 0' W line of NW NW

QUADRANGLE: VERMONT LONGITUDE: -90.449284 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.316754 DATE COLLECTED: 1 / 8 / 1958

SURFACE ELEVATION (FT.): 595.1 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE C553 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
595.1	PLEISTOCENE		CLAY	18.0	0.0
577.1	PLEISTOCENE		SAND & GRAVEL	8.0	18.0
569.1	PLEISTOCENE		CLAY	21.0	26.0
548.1	TRADEWATER		LIMESTONE	3.0	47.0
545.1	TRADEWATER		DARK SHALE	11.0	50.0
534.1	TRADEWATER	ROCK ISLAND	COAL	0.7	61.0
533.4	TRADEWATER		UNDERCLAY	2.0	61.7
531.4	TRADEWATER		SANDY SHALE	3.3	63.7

MAPID: 05786793000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 19 QUARTERS/FOOTAGES: 660' S line, 0' E line of NW NE

QUADRANGLE: VERMONT LONGITUDE: -90.434784 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.318343 DATE COLLECTED: 7 / 7 / 1959

SURFACE ELEVATION (FT.): 634.1 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE C580 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
634.1	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0
626.1	PLEISTOCENE		CLAY	34.0	8.0
592.1	PLEISTOCENE			5.0	42.0
587.1	PLEISTOCENE		CLAY	6.0	47.0
581.1	CARBONDALE		SHALE	8.0	53.0
573.1	CARBONDALE	COLCHESTER	COAL	2.7	61.0 GOOD
570.4	CARBONDALE		UNDERCLAY	1.3	63.7

MAPID: 05786794000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 19 QUARTERS/FOOTAGES: 0' N line, 660' E line of SW SW
 QUADRANGLE: VERMONT LONGITUDE: -90.446994 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.309303 DATE COLLECTED: 6 / 26 / 1959
 SURFACE ELEVATION (FT.): 634.2 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE C402 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
634.2	PLEISTOCENE		CLAY	16.0	0.0	
618.2	PLEISTOCENE		SAND & GRAVEL	4.0	16.0	
614.2	PLEISTOCENE		CLAY	25.0	20.0	
589.2	PLEISTOCENE		SAND & GRAVEL	9.0	45.0	
580.2	CARBONDALE		SHALE	16.0	54.0	
564.2	CARBONDALE	COLCHESTER	COAL	2.6	70.0	GOOD
561.6	CARBONDALE		UNDERCLAY	2.4	72.6	

MAPID: 05786577000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 21 QUARTERS/FOOTAGES: 495' S line, 495' W line of SW NE
 QUADRANGLE: VERMONT LONGITUDE: -90.399725 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.314182 DATE COLLECTED: 4 / 17 / 1972
 SURFACE ELEVATION (FT.): 646.8 LOGGED (FT.): 95.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE C521G WELL TYPE: Coal Test
 COMMENT: NE VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.8	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0	
631.8	PLEISTOCENE		CLAY	70.0	15.0	
561.8	CARBONDALE		SHALE	6.0	85.0	SOFT
555.8	CARBONDALE	COLCHESTER	COAL	2.3	91.0	
553.5	CARBONDALE		UNDERCLAY	1.7	93.3	

MAPID: 05786664000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 22 QUARTERS/FOOTAGES: 0' S line, 660' W line of NW NW
 QUADRANGLE: VERMONT LONGITUDE: -90.389498 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.316411 DATE COLLECTED: 2 / 2 / 1971
 SURFACE ELEVATION (FT.): 581.8 LOGGED (FT.): 18.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE R552 WELL TYPE: Coal Test
 COMMENT: NE VERMONT BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
581.8	PLEISTOCENE		SAND & GRAVEL	14.0	0.0	
567.8	CARBONDALE	COLCHESTER	COAL	2.4	14.0	FAIR; TOP ERODED
565.4	CARBONDALE		UNDERCLAY	1.6	16.4	

MAPID: 05786665000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 22 QUARTERS/FOOTAGES: 0' S line, 330' W line of NE NE

QUADRANGLE: VERMONT LONGITUDE: -90.376403 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.316266 DATE COLLECTED: 7 / 30 / 1974

SURFACE ELEVATION (FT.): 635.0 LOGGED (FT.): 121.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE R557B WELL TYPE: Coal Test

COMMENT: SUNSPOT CROPLINE BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
635.0	PLEISTOCENE		CLAY	16.0	0.0
619.0	PLEISTOCENE		CLAY	12.0	16.0
607.0	PLEISTOCENE		CLAY	26.0	28.0
581.0	PLEISTOCENE		CLAY	20.0	54.0
561.0	TRADEWATER		SANDSTONE	6.0	74.0
555.0	TRADEWATER		GRAY SHALE	37.7	80.0
517.3	TRADEWATER	ROCK ISLAND	COAL	1.3	117.7
516.1	TRADEWATER		UNDERCLAY	2.1	118.9

MAPID: 05786896000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 22 QUARTERS/FOOTAGES: 660' S line, 0' E line of SW SE

QUADRANGLE: VERMONT LONGITUDE: -90.377927 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.307041 DATE COLLECTED: 8 / 6 / 1963

SURFACE ELEVATION (FT.): 632.3 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE R430 WELL TYPE: Coal Test

COMMENT: NE VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
632.3	PLEISTOCENE		CLAY	9.0	0.0
623.3	PLEISTOCENE		CLAY	14.0	9.0
609.3	PLEISTOCENE		CLAY	12.0	23.0
597.3	CARBONDALE		SHALE	47.0	35.0 SOFT
550.3	CARBONDALE	COLCHESTER	COAL	2.2	82.0 GOOD
548.1	CARBONDALE		UNDERCLAY	1.8	84.2

MAPID: 0578690000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 22 QUARTERS/FOOTAGES: 0' S line, 660' E line of NW SE

QUADRANGLE: VERMONT LONGITUDE: -90.380225 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.308944 DATE COLLECTED: 5 / 18 / 1960

SURFACE ELEVATION (FT.): 634.3 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE R506 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
634.3	PLEISTOCENE		CLAY	20.0	0.0	
614.3	PLEISTOCENE		CLAY	15.0	20.0	
599.3	PLEISTOCENE		CLAY	10.0	35.0	
589.3	CARBONDALE		SHALE	20.0	45.0	SOFT
569.3	CARBONDALE		SANDY SHALE	17.0	65.0	HARD
552.3	CARBONDALE	COLCHESTER	COAL	2.4	82.0	GOOD
549.9	CARBONDALE		UNDERCLAY	1.6	84.4	

MAPID: 05786586000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 23 QUARTERS/FOOTAGES: 660' N line, 1' E line of NE SW

QUADRANGLE: IPAVA LONGITUDE: -90.363438 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.31061 DATE COLLECTED: 8 / 8 / 1963

SURFACE ELEVATION (FT.): 625.0 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE R488 WELL TYPE: Coal Test

COMMENT: NE VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
625.0	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
616.0	PLEISTOCENE		CLAY	14.0	9.0	
602.0	PLEISTOCENE		CLAY	33.0	23.0	
569.0	CARBONDALE		SHALE	16.0	56.0	SOFT
553.0	CARBONDALE	COLCHESTER	COAL	2.1	72.0	GOOD
550.9	CARBONDALE		UNDERCLAY	1.9	74.1	

MAPID: 0578666000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 23 QUARTERS/FOOTAGES: 0' S line, 750' E line of NW NW
 QUADRANGLE: IPAVA LONGITUDE: -90.370724 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.3162 DATE COLLECTED: 8 / 15 / 1963
 SURFACE ELEVATION (FT.): 632.7 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE R560 WELL TYPE: Coal Test
 COMMENT: NE VERMONT BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
632.7	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0	
620.7	PLEISTOCENE		CLAY	7.0	12.0	
613.7	PLEISTOCENE		CLAY	15.0	19.0	
598.7	PLEISTOCENE		BOULDER	1.0	34.0	HARD
597.7	PLEISTOCENE		CLAY	19.0	35.0	
578.7	CARBONDALE		SANDY SHALE	20.0	54.0	SOFT
558.7	CARBONDALE	COLCHESTER	COAL	2.3	74.0	GOOD
556.4	CARBONDALE		UNDERCLAY	1.7	76.3	

MAPID: 05786668000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 23 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW NE
 QUADRANGLE: IPAVA LONGITUDE: -90.363214 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.316103 DATE COLLECTED: 8 / 7 / 1963
 SURFACE ELEVATION (FT.): 632.5 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE R563 WELL TYPE: Coal Test
 COMMENT: NE VERMONT BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
632.5	PLEISTOCENE		CLAY	13.0	0.0	
619.5	PLEISTOCENE		CLAY	13.0	13.0	
606.5	PLEISTOCENE		SAND & GRAVEL	32.0	26.0	
574.5	CARBONDALE		SHALE	11.0	58.0	SOFT
563.5	CARBONDALE		SANDY SHALE	15.0	69.0	
548.5	CARBONDALE		SANDY SHALE	9.0	84.0	
539.5	CARBONDALE	COLCHESTER	COAL	2.3	93.0	GOOD
537.2	CARBONDALE		UNDERCLAY	1.8	95.3	

MAPID: 05786898000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 23 QUARTERS/FOOTAGES: SW SW

QUADRANGLE: IPAVA LONGITUDE: -90.370825 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.306983 DATE COLLECTED: 8 / 9 / 1963

SURFACE ELEVATION (FT.): 624.7 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE R461 WELL TYPE: Coal Test

COMMENT: NE VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
624.7	PLEISTOCENE		CLAY	13.0	0.0	
611.7	PLEISTOCENE		CLAY	8.0	13.0	
603.7	PLEISTOCENE		SAND & GRAVEL	53.0	21.0	
550.7	CARBONDALE		SHALE	9.0	74.0	SOFT
541.7	CARBONDALE	COLCHESTER	COAL	2.3	83.0	GOOD
539.4	CARBONDALE		UNDERCLAY	1.7	85.3	

MAPID: 05786667000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 24 QUARTERS/FOOTAGES: 570' N line, 60' W line of NW NE

QUADRANGLE: IPAVA LONGITUDE: -90.343801 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.317841 DATE COLLECTED: 10 / 9 / 1975

SURFACE ELEVATION (FT.): 587.5 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE R596Z WELL TYPE: Coal Test

COMMENT: IPAVA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
587.5	PLEISTOCENE		SILT	1.0	0.0	
586.5	PLEISTOCENE		CLAY	4.0	1.0	
582.5	PLEISTOCENE		UNCONSOLIDATED	49.0	5.0	
533.5	CARBONDALE		GRAY SHALE	18.0	54.0	
515.5	CARBONDALE	COLCHESTER	COAL	2.0	72.0	
513.5	CARBONDALE		UNDERCLAY	1.0	74.0	

MAPID: 05786897000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 24 QUARTERS/FOOTAGES: 660' N line, 0' E line of SE SE

QUADRANGLE: IPAVA LONGITUDE: -90.334832 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.306463 DATE COLLECTED: 6 / 30 / 1960

SURFACE ELEVATION (FT.): 622.3 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE R448 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.3	PLEISTOCENE		CLAY	6.0	0.0	
616.3	PLEISTOCENE		CLAY	8.0	6.0	
608.3	PLEISTOCENE		CLAY	10.0	14.0	
598.3	CARBONDALE		SANDY SHALE	17.0	24.0	
581.3	CARBONDALE		SANDY SHALE	33.0	41.0	SOFT
548.3	CARBONDALE	COLCHESTER	COAL	2.4	74.0	GOOD
545.9	CARBONDALE		UNDERCLAY	1.6	76.4	

MAPID: 05786899000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 24 QUARTERS/FOOTAGES: 795' S line, 0' E line of NE SE

QUADRANGLE: IPAVA LONGITUDE: -90.334718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.310457 DATE COLLECTED: 1 / 19 / 1961

SURFACE ELEVATION (FT.): 610.5 LOGGED (FT.): 62.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE R498 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.5	PLEISTOCENE		CLAY	4.0	0.0	
606.5	PLEISTOCENE		CLAY	5.0	4.0	
601.5	PLEISTOCENE		CLAY	8.0	9.0	
593.5	CARBONDALE		DARK SHALE	41.0	17.0	SOFT
552.5	CARBONDALE	COLCHESTER	COAL	2.0	58.0	GOOD
550.5	CARBONDALE		UNDERCLAY	2.0	60.0	

MAPID: 05786804000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 4N 1E **SECTION:** 25 **QUARTERS/FOOTAGES:** 25' S line, 75' E line of NW SE
QUADRANGLE: IPAVA **LONGITUDE:** -90.340204 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.293753 **DATE COLLECTED:** 3 / 8 / 1960
SURFACE ELEVATION (FT.): 572.8 **LOGGED (FT.):** 76.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE R273 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
572.8	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
565.8	PLEISTOCENE		CLAY	14.0	7.0	
551.8	PLEISTOCENE		SAND & GRAVEL	52.0	21.0	
499.8	TRADEWATER	ROCK ISLAND	COAL	1.5	73.0	TOP ERODED
498.3	CARBONDALE		LIMESTONE	1.5	74.5	

MAPID: 05786807000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 4N 1E **SECTION:** 25 **QUARTERS/FOOTAGES:** 330' N line, 0' W line of SW NW
QUADRANGLE: IPAVA **LONGITUDE:** -90.354106 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.300379 **DATE COLLECTED:** 5 / 26 / 1961
SURFACE ELEVATION (FT.): 585.2 **LOGGED (FT.):** 76.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE R344C **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.2	PLEISTOCENE		CLAY	4.0	0.0	
581.2	PLEISTOCENE		CLAY	17.0	4.0	
564.2	PLEISTOCENE		CLAY	44.0	21.0	
520.2	PLEISTOCENE			3.0	65.0	
517.2	TRADEWATER	ROCK ISLAND	COAL	1.7	68.0	SOFT; TOP ERODED
515.5	TRADEWATER		UNDERCLAY	5.3	69.7	
510.2	TRADEWATER		LIMESTONE	1.0	75.0	

MAPID: 05786892000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 25 QUARTERS/FOOTAGES: NE NE

QUADRANGLE: IPAVA LONGITUDE: -90.337319 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.302842 DATE COLLECTED: 3 / 7 / 1960

SURFACE ELEVATION (FT.): 615.0 LOGGED (FT.): 79.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE R373 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
615.0	PLEISTOCENE		CLAY	20.0	0.0	
595.0	PLEISTOCENE		CLAY	15.0	20.0	
580.0	PLEISTOCENE		CLAY	18.0	35.0	
562.0	CARBONDALE		SHALE	22.0	53.0	SOFT
540.0	CARBONDALE	COLCHESTER	COAL	2.3	75.0	GOOD
537.7	CARBONDALE		UNDERCLAY	1.7	77.3	

MAPID: 05786895000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 25 QUARTERS/FOOTAGES: 0' S line, 660' W line of NW NW

QUADRANGLE: IPAVA LONGITUDE: -90.351716 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.301246 DATE COLLECTED: 5 / 25 / 1961

SURFACE ELEVATION (FT.): 611.9 LOGGED (FT.): 82.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE R418 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
611.9	PLEISTOCENE		CLAY	9.0	0.0	
602.9	PLEISTOCENE		CLAY	27.0	9.0	
575.9	CARBONDALE		SANDY SHALE	13.0	36.0	
562.9	CARBONDALE		DARK SHALE	23.0	49.0	
539.9	CARBONDALE		SHALE	6.0	72.0	SOFT
533.9	CARBONDALE	COLCHESTER	COAL	2.3	78.0	GOOD
531.6	CARBONDALE		UNDERCLAY	1.8	80.3	

MAPID: 05786805000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 26 QUARTERS/FOOTAGES: NW SW

QUADRANGLE: IPAVA LONGITUDE: -90.3711 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.295857 DATE COLLECTED: 8 / 2 / 1963

SURFACE ELEVATION (FT.): 593.8 LOGGED (FT.): 54.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE R311 WELL TYPE: Coal Test

COMMENT: NE VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
593.8	PLEISTOCENE		CLAY	9.0	0.0	
584.8	PLEISTOCENE		CLAY	12.0	9.0	
572.8	PLEISTOCENE		CLAY	27.0	21.0	
545.8	CARBONDALE		SHALE	2.0	48.0	SOFT
543.8	CARBONDALE	COLCHESTER	COAL	2.5	50.0	FAIR
541.3	CARBONDALE		UNDERCLAY	1.5	52.5	

MAPID: 05786806000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 26 QUARTERS/FOOTAGES: NE SE

QUADRANGLE: IPAVA LONGITUDE: -90.35664 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.295719 DATE COLLECTED: 5 / 25 / 1961

SURFACE ELEVATION (FT.): 607.9 LOGGED (FT.): 91.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE R317 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
607.9	PLEISTOCENE		CLAY	17.0	0.0	
590.9	PLEISTOCENE		CLAY	33.0	17.0	
557.9	PLEISTOCENE		CLAY	15.0	50.0	
542.9	PLEISTOCENE		SAND	10.4	65.0	
532.5	TRADEWATER		LIMESTONE	1.9	75.4	HARD
530.6	TRADEWATER		SHALE	11.7	77.3	
518.9	TRADEWATER	ROCK ISLAND	COAL	0.3	89.0	BLOOM
518.6	TRADEWATER		UNDERCLAY	1.3	89.3	
517.2	TRADEWATER		LIMESTONE	0.3	90.7	

MAPID: 05786894000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 4N 1E **SECTION:** 26 **QUARTERS/FOOTAGES:** NW NW
QUADRANGLE: IPAVA **LONGITUDE:** -90.370944 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.303284 **DATE COLLECTED:** 7 / 26 / 1963
SURFACE ELEVATION (FT.): 627.1 **LOGGED (FT.):** 81.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE R409 **WELL TYPE:** Coal Test
COMMENT: NE VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
627.1	PLEISTOCENE		CLAY	13.0	0.0	
614.1	PLEISTOCENE		CLAY	8.0	13.0	
606.1	PLEISTOCENE		CLAY	35.0	21.0	
571.1			SANDY SHALE	20.0	56.0	SOFT
551.1			COAL	2.4	76.0	GOOD #2?
548.7			UNDERCLAY	1.6	78.4	

MAPID: 05786538000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: FULTON **TWP/RNG:** 4N 1E **SECTION:** 27 **QUARTERS/FOOTAGES:** 1' S line, 1' W line of SW NW
QUADRANGLE: VERMONT **LONGITUDE:** -90.392221 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.298018 **DATE COLLECTED:** 4 / 15 / 1959
SURFACE ELEVATION (FT.): 610.2 **LOGGED (FT.):** 65.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE C275 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.2	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
600.2	PLEISTOCENE		CLAY	48.2	10.0	
552.0	CARBONDALE	COLCHESTER	COAL	2.3	58.2	FAIR: TOP ERODED
549.7	CARBONDALE		UNDERCLAY	4.5	60.5	

MAPID: 05786785000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 4N 1E **SECTION:** 27 **QUARTERS/FOOTAGES:** 700' S line, 60' W line of SW SW
QUADRANGLE: VERMONT **LONGITUDE:** -90.392172 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.292513 **DATE COLLECTED:** 4 / 15 / 1959
SURFACE ELEVATION (FT.): 593.9 **LOGGED (FT.):** 57.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE C250 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
593.9	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
585.9	PLEISTOCENE		CLAY	9.0	8.0	
576.9	CARBONDALE		GRAY SHALE	24.3	17.0	
552.6	CARBONDALE	COLCHESTER	COAL	2.3	41.3	FAIR
550.3	CARBONDALE		UNDERCLAY	13.4	43.6	

MAPID: 05786537000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 28 QUARTERS/FOOTAGES: 1' S line, 660' W line of NW SE
 QUADRANGLE: VERMONT LONGITUDE: -90.39952 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.294406 DATE COLLECTED: 12 / 7 / 1959
 SURFACE ELEVATION (FT.): 617.5 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE C272 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
617.5	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
609.5	PLEISTOCENE		CLAY	15.0	8.0	
594.5	CARBONDALE		SANDSTONE	3.0	23.0	SOFT
591.5	CARBONDALE		SANDY SHALE	37.0	26.0	DARK
554.5	CARBONDALE	COLCHESTER	COAL	2.5	63.0	GOOD
552.0	CARBONDALE		UNDERCLAY	1.5	65.5	SOFT

MAPID: 05700009000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 29 QUARTERS/FOOTAGES: 2310' S line, 1400' W line
 QUADRANGLE: VERMONT LONGITUDE: -90.425455 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.297253 DATE COLLECTED: 0 / 0 / 1928
 SURFACE ELEVATION (FT.): 695.0 LOGGED (FT.): 1364.0 LOG TYPE: Drillers Log
 SOURCE: WILSON, W. P. WELL TYPE: Water Well
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.0			UNCONSOLIDATED	88.0	0.0	
607.0	CARBONDALE		SHALE	51.0	88.0	
556.0	CARBONDALE	COLCHESTER	COAL	1.5	139.0	BASE OF CARBONDALE
554.5	SPOON		UNDERCLAY	14.5	140.5	
540.0	SPOON		ROCK	1.0	155.0	
539.0	SPOON		SHALE	44.0	156.0	
495.0	SPOON	BROWNING	SANDSTONE	7.0	200.0	
488.0	SPOON		SHALE	4.0	207.0	BASE OF PENNSYLVANIAN
484.0			ROCK	1153.0	211.0	MISSISSIPPIAN

MAPID: 05786536000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 29 QUARTERS/FOOTAGES: 1' N line, 1' W line of SE SE
 QUADRANGLE: VERMONT LONGITUDE: -90.416236 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.294557 DATE COLLECTED: 5 / 23 / 1961
 SURFACE ELEVATION (FT.): 652.5 LOGGED (FT.): 113.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE C265 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
652.5	PLEISTOCENE		UNCONSOLIDATED	24.0	0.0	
628.5	PLEISTOCENE		CLAY	38.0	24.0	
590.5	CARBONDALE		SANDSTONE	5.0	62.0	
585.5	CARBONDALE		DARK SHALE	16.0	67.0	
569.5	CARBONDALE		SHALE	26.0	83.0	SOFT
543.5	CARBONDALE	COLCHESTER	COAL	2.4	109.0	GOOD
541.1	CARBONDALE		UNDERCLAY	1.6	111.4	

MAPID: 05786535000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 30 QUARTERS/FOOTAGES: 1' S line, 660' E line of SE SW
 QUADRANGLE: VERMONT LONGITUDE: -90.442654 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.290942 DATE COLLECTED: 7 / 18 / 1973
 SURFACE ELEVATION (FT.): 636.5 LOGGED (FT.): 62.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE C204 WELL TYPE: Coal Test
 COMMENT: SW VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
636.5	PLEISTOCENE		SILT	3.0	0.0	
633.5	PLEISTOCENE		CLAY	6.0	3.0	
627.5	PLEISTOCENE		UNCONSOLIDATED	49.0	9.0	SAND
578.5	CARBONDALE	COLCHESTER	COAL	2.4	58.0	TOP ERODED
576.1	CARBONDALE		UNDERCLAY	1.6	60.4	

MAPID: 05786783000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 30 QUARTERS/FOOTAGES: 0' N line, 1320' W line of SW SW

QUADRANGLE: VERMONT LONGITUDE: -90.445043 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.294626 DATE COLLECTED: 7 / 18 / 1972

SURFACE ELEVATION (FT.): 625.2 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log

SOURCE: AMAX C203 WELL TYPE: Coal Test

COMMENT: SW VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
625.2	PLEISTOCENE		SILT	3.0	0.0
622.2	PLEISTOCENE		CLAY	7.0	3.0
615.2	PLEISTOCENE		UNCONSOLIDATED	25.0	10.0
590.2	CARBONDALE		GRAY SHALE	16.0	35.0
574.2	CARBONDALE	COLCHESTER	COAL	2.4	51.0
571.8	CARBONDALE		UNDERCLAY	1.6	53.4

MAPID: 05786784000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 30 QUARTERS/FOOTAGES: 660' S line, 660' E line of SW SE

QUADRANGLE: VERMONT LONGITUDE: -90.437802 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.292719 DATE COLLECTED: 7 / 18 / 1973

SURFACE ELEVATION (FT.): 654.8 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log

SOURCE: AMAX C231 WELL TYPE: Coal Test

COMMENT: SW VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
654.8	PLEISTOCENE		SILT	4.0	0.0
650.8	PLEISTOCENE		CLAY	13.0	4.0
637.8	PLEISTOCENE		UNCONSOLIDATED	44.0	17.0
593.8	CARBONDALE		GRAY SHALE	20.0	61.0
573.8	CARBONDALE	COLCHESTER	COAL	2.4	81.0
571.4	CARBONDALE		UNDERCLAY	1.6	83.4

MAPID: 05786786000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 30 QUARTERS/FOOTAGES: 495' S line, 0' E line of SW NE

QUADRANGLE: VERMONT LONGITUDE: -90.435235 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.299597 DATE COLLECTED: 7 / 16 / 1973

SURFACE ELEVATION (FT.): 619.7 LOGGED (FT.): 91.0 LOG TYPE: Drillers Log

SOURCE: AMAX C305D WELL TYPE: Coal Test

COMMENT: SW VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
619.7	PLEISTOCENE		SILT	4.0	0.0
615.7	PLEISTOCENE		CLAY	8.0	4.0
607.7	PLEISTOCENE		UNCONSOLIDATED	43.0	12.0
564.7	CARBONDALE		GRAY SHALE	32.0	55.0
532.7	CARBONDALE	COLCHESTER	COAL	2.6	87.0
530.1	CARBONDALE		UNDERCLAY	1.4	89.6

MAPID: 05786533000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 31 QUARTERS/FOOTAGES: 660' S line, 660' W line of SW SW

QUADRANGLE: VERMONT LONGITUDE: -90.44779 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.278086 DATE COLLECTED: 8 / 9 / 1972

SURFACE ELEVATION (FT.): 622.8 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE C177 WELL TYPE: Coal Test

COMMENT: SW VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
622.8	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0
614.8	PLEISTOCENE		SAND & GRAVEL	10.0	8.0
604.8	CARBONDALE		GRAY SHALE	33.0	18.0
571.8	CARBONDALE	COLCHESTER	COAL	2.3	51.0
569.5	CARBONDALE		UNDERCLAY	1.7	53.3

MAPID: 05786781000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 31 QUARTERS/FOOTAGES:

QUADRANGLE: VERMONT LONGITUDE: -90.44046 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.283569 DATE COLLECTED: 8 / 11 / 1976

SURFACE ELEVATION (FT.): 640.1 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AMAX C27 WELL TYPE: Coal Test

COMMENT: SOUTHWEST BOX 34 N1315276 E421471

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.1	PLEISTOCENE		SILT	1.0	0.0	
639.1	PLEISTOCENE		CLAY	10.0	1.0	
629.1	PLEISTOCENE		UNCONSOLIDATED	12.0	11.0	
617.1	PLEISTOCENE		UNCONSOLIDATED	2.0	23.0	SANDY
615.1	CARBONDALE		GRAY SHALE	29.0	25.0	
586.1	CARBONDALE		SANDY SHALE	6.0	54.0	
580.1	CARBONDALE	COLCHESTER	COAL	2.2	60.0	
577.9	CARBONDALE		UNDERCLAY	3.0	62.2	
574.9	CARBONDALE		LIMESTONE	2.8	65.2	

MAPID: 05786782000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 31 QUARTERS/FOOTAGES: 0' S line, 40' E line of SE SE SE

QUADRANGLE: VERMONT LONGITUDE: -90.43122 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.276141 DATE COLLECTED: 1 / 17 / 1975

SURFACE ELEVATION (FT.): 685.6 LOGGED (FT.): 131.0 LOG TYPE: Drillers Log

SOURCE: AMAX C34 WELL TYPE: Coal Test

COMMENT: SW SUNSPOT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.6	PLEISTOCENE		CLAY	24.0	0.0	
661.6	PLEISTOCENE		UNCONSOLIDATED	48.6	24.0	
613.0	CARBONDALE		GRAY SHALE	53.4	72.6	
559.6	CARBONDALE	COLCHESTER	COAL	2.2	126.0	
557.4	CARBONDALE		UNDERCLAY	1.4	128.2	
556.0	CARBONDALE		MICACEOUS SHALE	1.4	129.6	

MAPID: 05786534000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 32 QUARTERS/FOOTAGES: 660' S line, 1' W line of NE NE

QUADRANGLE: VERMONT LONGITUDE: -90.416379 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.289015 DATE COLLECTED: 5 / 15 / 1961

SURFACE ELEVATION (FT.): 638.4 LOGGED (FT.): 89.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE C190 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
638.4	PLEISTOCENE		UNCONSOLIDATED	28.0	0.0	
610.4	PLEISTOCENE		CLAY	50.0	28.0	
560.4	CARBONDALE		SHALE	8.0	78.0	
552.4	CARBONDALE	COLCHESTER	COAL	2.3	86.0	GOOD
550.1	CARBONDALE		UNDERCLAY	0.7	88.3	

MAPID: 05786780000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 32 QUARTERS/FOOTAGES: 0' N line, 660' E line of SE SW

QUADRANGLE: VERMONT LONGITUDE: -90.423828 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.279784 DATE COLLECTED: 3 / 24 / 1960

SURFACE ELEVATION (FT.): 658.8 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE C12 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
658.8	PLEISTOCENE		CLAY	25.0	0.0	
633.8	PLEISTOCENE		CLAY	15.0	25.0	
618.8	PLEISTOCENE		CLAY	17.0	40.0	
601.8	CARBONDALE		SHALE	20.0	57.0	SOFT
581.8	CARBONDALE		SHALE	16.0	77.0	HARD
565.8	CARBONDALE	COLCHESTER	COAL	2.3	93.0	GOOD
563.5	CARBONDALE		UNDERCLAY	1.8	95.3	

MAPID: 05786791000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 32 QUARTERS/FOOTAGES: NW SE

QUADRANGLE: VERMONT LONGITUDE: -90.419024 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.281618 DATE COLLECTED: 3 / 15 / 1960

SURFACE ELEVATION (FT.): 649.4 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE C115 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.4	PLEISTOCENE		CLAY	25.0	0.0	
624.4	PLEISTOCENE		CLAY	10.0	25.0	
614.4	PLEISTOCENE		CLAY	20.0	35.0	
594.4	CARBONDALE		SHALE	29.0	55.0	SOFT
565.4	CARBONDALE	COLCHESTER	COAL	2.4	84.0	GOOD
563.0	CARBONDALE		UNDERCLAY	1.6	86.4	

MAPID: 05786532000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 33 QUARTERS/FOOTAGES: 495' S line, 1' E line of NE NE

QUADRANGLE: VERMONT LONGITUDE: -90.392468 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.288278 DATE COLLECTED: 8 / 20 / 1959

SURFACE ELEVATION (FT.): 617.7 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE C175-D WELL TYPE: Coal Test

COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
617.7	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
607.7	PLEISTOCENE		CLAY	20.0	10.0	
587.7	PLEISTOCENE		SAND & GRAVEL	21.0	30.0	
566.7	CARBONDALE		GRAY SHALE	13.3	51.0	
553.4	CARBONDALE	COLCHESTER	COAL	2.5	64.3	FAIR
550.9	CARBONDALE		UNDERCLAY	1.2	66.8	

MAPID: 05786539000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 34 QUARTERS/FOOTAGES: 1' S line, 1' W line of SE NE
 QUADRANGLE: VERMONT LONGITUDE: -90.378409 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.283046 DATE COLLECTED: 11 / 26 / 1959
 SURFACE ELEVATION (FT.): 609.1 LOGGED (FT.): 56.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE R107 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
609.1	PLEISTOCENE		UNCONSOLIDATED	22.0	0.0	
587.1	CARBONDALE		SANDY SHALE	30.0	22.0	
557.1	CARBONDALE	COLCHESTER	COAL	2.3	52.0	GOOD
554.8	CARBONDALE		UNDERCLAY	1.7	54.3	

MAPID: 05786540000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 35 QUARTERS/FOOTAGES: 1' S line, 1' W line of SE NW
 QUADRANGLE: IPAVA LONGITUDE: -90.368921 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.282947 DATE COLLECTED: 2 / 11 / 1960
 SURFACE ELEVATION (FT.): 616.8 LOGGED (FT.): 83.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE R111 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
616.8	PLEISTOCENE		UNCONSOLIDATED	22.0	0.0	
594.8	PLEISTOCENE		CLAY	12.0	22.0	
582.8	PLEISTOCENE		CLAY	11.0	34.0	
571.8	CARBONDALE		SHALE	15.0	45.0	SOFT
556.8	CARBONDALE		SHALE	19.0	60.0	HARD
537.8	CARBONDALE	COLCHESTER	COAL	2.4	79.0	GOOD
535.4	CARBONDALE		UNDERCLAY	1.6	81.4	

MAPID: 05786790000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 1E SECTION: 36 QUARTERS/FOOTAGES: NW NE

QUADRANGLE: IPAVA LONGITUDE: -90.342465 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.288191 DATE COLLECTED: 5 / 1 / 1959

SURFACE ELEVATION (FT.): 527.7 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE R21C WELL TYPE: Coal Test

COMMENT: VERMONT BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
527.7	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
521.7	PLEISTOCENE		CLAY	12.0	6.0	
509.7	PLEISTOCENE		CLAY	9.0	18.0	
500.7	CARBONDALE		SANDSTONE	3.0	27.0	
497.7	CARBONDALE		SHALE	12.5	30.0	
485.2	CARBONDALE		BLACK SHALE	1.5	42.5	
483.7	CARBONDALE		DARK SHALE	7.5	44.0	
476.2	CARBONDALE		COAL	0.5	51.5	
475.7	SPOON		DARK SHALE	3.0	52.0	
472.7	SPOON	ROCK ISLAND	COAL	1.8	55.0	FAIR
470.9	SPOON		UNDERCLAY	1.2	56.8	
469.7	SPOON		DARK SHALE	9.0	58.0	

MAPID: 05786527000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 1 QUARTERS/FOOTAGES: 1' S line, 65' W line of SW NW

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.237345 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.356908 DATE COLLECTED: 5 / 4 / 1961

SURFACE ELEVATION (FT.): 543.0 LOGGED (FT.): 41.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE MM517 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
543.0	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
536.0	CARBONDALE		SANDSTONE	6.8	7.0	
529.2	CARBONDALE		DARK SHALE	2.3	13.8	
526.8	CARBONDALE		GRAY SANDSTONE	9.2	16.2	
517.7	CARBONDALE		GRAY SHALE	11.6	25.3	
506.1	CARBONDALE	COLCHESTER	COAL	2.4	36.9	FAIR
503.7	CARBONDALE		UNDERCLAY	1.7	39.3	

MAPID: 05786708000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 1 QUARTERS/FOOTAGES: 0' N line, 65' W line of NW SW

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.237348 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.356905 DATE COLLECTED: 5 / 4 / 1961

SURFACE ELEVATION (FT.): 543.0 LOGGED (FT.): 41.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE MM517 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
543.0	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
536.0	CARBONDALE		SANDSTONE	6.8	7.0	
529.2	CARBONDALE		DARK SHALE	2.3	13.8	
526.8	CARBONDALE		GRAY SANDSTONE	9.2	16.2	
517.7	CARBONDALE		GRAY SHALE	11.6	25.3	
506.1	CARBONDALE	COLCHESTER	COAL	2.4	36.9	FAIR
503.7	CARBONDALE		UNDERCLAY	1.7	39.3	

MAPID: 05786526000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 2 QUARTERS/FOOTAGES: 1' N line, 1' W line of SW SW

QUADRANGLE: ST. PAUL LONGITUDE: -88.957743 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 38.812537 DATE COLLECTED: 8 / 14 / 1961

SURFACE ELEVATION (FT.): 606.3 LOGGED (FT.): 92.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE MM459 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
606.3	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
595.3	PLEISTOCENE		CLAY	5.0	11.0	
590.3	PLEISTOCENE		CLAY	10.0	16.0	
580.3	CARBONDALE		SANDY SHALE	62.0	26.0	HARD
518.3	CARBONDALE	COLCHESTER	COAL	2.2	88.0	GOOD
516.1	CARBONDALE		UNDERCLAY	1.8	90.2	

MAPID: 05786707000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 2 QUARTERS/FOOTAGES: SW SW

QUADRANGLE: IPAVA LONGITUDE: -90.254035 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.351293 DATE COLLECTED: 8 / 14 / 1961

SURFACE ELEVATION (FT.): 606.3 LOGGED (FT.): 92.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE MM459 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
606.3	PLEISTOCENE		CLAY	11.0	0.0	
595.3	PLEISTOCENE		CLAY	5.0	11.0	
590.3	PLEISTOCENE		CLAY	10.0	16.0	
580.3	CARBONDALE		SANDY SHALE	62.0	26.0	
518.3	CARBONDALE	COLCHESTER	COAL	2.2	88.0	GOOD
516.1	CARBONDALE		UNDERCLAY	1.8	90.2	

MAPID: 05786588000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 4 QUARTERS/FOOTAGES: 1255' S line, 1' W line of SW NW

QUADRANGLE: IPAVA LONGITUDE: -90.294231 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.359395 DATE COLLECTED: 6 / 19 / 1961

SURFACE ELEVATION (FT.): 572.2 LOGGED (FT.): 42.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE V567 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
572.2	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
565.2	CARBONDALE		SANDSTONE	1.0	7.0	
564.2	CARBONDALE		SANDSTONE	29.5	8.0	LAMINATED
534.7	CARBONDALE	COLCHESTER	COAL	2.5	37.5	GOOD
532.2	CARBONDALE		UNDERCLAY	2.0	40.0	

MAPID: 05786941000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 4 QUARTERS/FOOTAGES: 2475' S line, 0' E line of SW SE
 QUADRANGLE: IPAVA LONGITUDE: -90.279666 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.355314 DATE COLLECTED: 6 / 19 / 1961
 SURFACE ELEVATION (FT.): 622.4 LOGGED (FT.): 113.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE V421JC WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.4	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
611.4	PLEISTOCENE		CLAY	5.0	11.0	
606.4	CARBONDALE		SANDSTONE	23.0	16.0	
583.4	CARBONDALE		SHALE	57.0	39.0	LAMINATED
526.4	CARBONDALE		SHALE	13.0	96.0	SOFT
513.4	CARBONDALE	COLCHESTER	COAL	2.5	109.0	GOOD
510.9	CARBONDALE		UNDERCLAY	1.5	111.5	

MAPID: 05786943000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 4 QUARTERS/FOOTAGES: SW SW
 QUADRANGLE: IPAVA LONGITUDE: -90.291724 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.350261 DATE COLLECTED: 6 / 19 / 1961
 SURFACE ELEVATION (FT.): 632.7 LOGGED (FT.): 110.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE V467 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
632.7	PLEISTOCENE		CLAY	27.0	0.0	
605.7	PLEISTOCENE		CLAY	8.0	27.0	
597.7	CARBONDALE		SHALE	21.0	35.0	LAMINATED
576.7	CARBONDALE		SHALE	49.0	56.0	
527.7	CARBONDALE	COLCHESTER	COAL	2.3	105.0	GOOD
525.4	CARBONDALE		UNDERCLAY	2.7	107.3	

MAPID: 05786926000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 4N 2E **SECTION:** 5 **QUARTERS/FOOTAGES:** 660' S line, 40' W line of SW NW
QUADRANGLE: IPAVA **LONGITUDE:** -90.31338 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.357797 **DATE COLLECTED:** 1 / 28 / 1971
SURFACE ELEVATION (FT.): 636.8 **LOGGED (FT.):** 85.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE V534 **WELL TYPE:** Coal Test
COMMENT: NE IPAVA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
636.8	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0	
624.8	PLEISTOCENE		CLAY	11.0	12.0	
613.8	CARBONDALE		GRAY SHALE	58.5	23.0	
555.3	CARBONDALE	COLCHESTER	COAL	2.1	81.5	GOOD
553.2	CARBONDALE		UNDERCLAY	1.4	83.6	

MAPID: 05786942000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 4N 2E **SECTION:** 5 **QUARTERS/FOOTAGES:** SE SE
QUADRANGLE: IPAVA **LONGITUDE:** -90.296735 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.35033 **DATE COLLECTED:** 10 / 6 / 1961
SURFACE ELEVATION (FT.): 631.8 **LOGGED (FT.):** 95.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE V465 **WELL TYPE:** Coal Test
COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
631.8	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
624.8	PLEISTOCENE		CLAY	14.0	7.0	
610.8	CARBONDALE		DARK SHALE	70.0	21.0	
540.8	CARBONDALE	COLCHESTER	COAL	2.1	91.0	GOOD
538.7	CARBONDALE		UNDERCLAY	1.9	93.1	

MAPID: 05786945000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 4N 2E **SECTION:** 5 **QUARTERS/FOOTAGES:** 135' N line, 0' E line of NW SE
QUADRANGLE: IPAVA **LONGITUDE:** -90.2991 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.355574 **DATE COLLECTED:** 10 / 6 / 1961
SURFACE ELEVATION (FT.): 633.0 **LOGGED (FT.):** 92.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE V513 **WELL TYPE:** Coal Test
COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.0	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
622.0	PLEISTOCENE		CLAY	8.0	11.0	
614.0	CARBONDALE		SANDY SHALE	65.0	19.0	
549.0	CARBONDALE		SHALE	4.0	84.0	SOFT
545.0	CARBONDALE	COLCHESTER	COAL	2.3	88.0	GOOD
542.7	CARBONDALE		UNDERCLAY	1.7	90.3	

MAPID: 05700010000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 4N 2E **SECTION:** 6 **QUARTERS/FOOTAGES:** NW SE SW
QUADRANGLE: IPAVA **LONGITUDE:** -90.327319 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.351227 **DATE COLLECTED:** 0 / 0 / 1915
SURFACE ELEVATION (FT.): 650.0 **LOGGED (FT.):** 1324.0 **LOG TYPE:** Drillers Log
SOURCE: SMITH, M. T. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			UNCONSOLIDATED	65.0	0.0	
585.0	CARBONDALE	OAK GROVE	LIMESTONE	2.0	65.0	
583.0	CARBONDALE	FRANCIS CREEK	SHALE	44.0	67.0	
539.0	CARBONDALE	COLCHESTER	COAL	2.0	111.0	BS CARBONDALE, THICKNESS UNCERTAIN
537.0	SPOON		LIMESTONE	3.0	113.0	
534.0	SPOON		SHALE	24.0	116.0	
510.0	SPOON		LIMESTONE	3.0	140.0	
507.0	SPOON		SHALE	37.0	143.0	BASE OF SPOON
470.0			SANDSTONE	15.0	180.0	BASE OF PENNSYLVANIAN
455.0			ROCK	1129.0	195.0	MISSISSIPPIAN TO ORDOVICIAN

MAPID: 05786587000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 6 QUARTERS/FOOTAGES: 588' S line, 115' E line of SW NE

QUADRANGLE: IPAVA LONGITUDE: -90.318875 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.357564 DATE COLLECTED: 3 / 31 / 1971

SURFACE ELEVATION (FT.): 619.3 LOGGED (FT.): 56.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE V532 WELL TYPE: Coal Test

COMMENT: NE IPAVA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
619.3	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0	
615.3	CARBONDALE		GRAY SHALE	48.5	4.0	
566.8	CARBONDALE	COLCHESTER	COAL	2.4	52.5	GOOD
564.4	CARBONDALE		UNDERCLAY	1.1	54.9	

MAPID: 05786925000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 6 QUARTERS/FOOTAGES: 660' S line, 660' W line of SW NE

QUADRANGLE: IPAVA LONGITUDE: -90.320628 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.357596 DATE COLLECTED: 11 / 22 / 1974

SURFACE ELEVATION (FT.): 644.1 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: AMAX V531 WELL TYPE: Coal Test

COMMENT: IPAVA FIELD BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.1	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0	
624.1	CARBONDALE		BLACK SHALE	4.0	20.0	
620.1	CARBONDALE		UNDERCLAY	7.0	24.0	
613.1	CARBONDALE		SHALY COAL	0.8	31.0	
612.3	CARBONDALE		GRAY SHALE	8.2	31.8	
604.1	CARBONDALE		SANDSTONE	2.0	40.0	
602.1	CARBONDALE		SANDY SHALE	37.5	42.0	
564.6	CARBONDALE	COLCHESTER	COAL	2.0	79.5	
562.6	CARBONDALE		SANDY SHALE	8.5	81.5	

MAPID: 05786927000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 6 QUARTERS/FOOTAGES: 0' N line, 660' E line of NW NW
 QUADRANGLE: IPAVA LONGITUDE: -90.329815 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.363296 DATE COLLECTED: 4 / 10 / 1962
 SURFACE ELEVATION (FT.): 634.1 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE V552 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
634.1	PLEISTOCENE		CLAY	6.0	0.0	
628.1	PLEISTOCENE		CLAY	16.0	6.0	
612.1	PLEISTOCENE		CLAY	7.0	22.0	
605.1	CARBONDALE		SHALE	39.0	29.0	SANDY
566.1	CARBONDALE	COLCHESTER	COAL	2.1	68.0	GOOD
564.0	CARBONDALE		UNDERCLAY	1.9	70.1	

MAPID: 05786944000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 6 QUARTERS/FOOTAGES: 20' N line, 80' E line of NW SE
 QUADRANGLE: IPAVA LONGITUDE: -90.318641 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.355763 DATE COLLECTED: 3 / 31 / 1971
 SURFACE ELEVATION (FT.): 642.1 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE V507 WELL TYPE: Coal Test
 COMMENT: NE IPAVA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
642.1	PLEISTOCENE		UNCONSOLIDATED	18.0	0.0	
624.1	CARBONDALE		COAL	2.0	18.0	SOFT; TOP ERODED
622.1	CARBONDALE		GRAY SHALE	63.0	20.0	
559.1	CARBONDALE	COLCHESTER	COAL	1.9	83.0	GOOD
557.2	CARBONDALE		UNDERCLAY	1.1	84.9	

MAPID: 05786935000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 7 QUARTERS/FOOTAGES: 660' S line, 610' E line of SW SW

QUADRANGLE: IPAVA LONGITUDE: -90.331099 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.335792 DATE COLLECTED: 5 / 18 / 1961

SURFACE ELEVATION (FT.): 629.9 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE V227 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.9	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
618.9	PLEISTOCENE		CLAY	12.0	11.0	
606.9	PLEISTOCENE		CLAY	41.0	23.0	
565.9	CARBONDALE		SANDY SHALE	12.0	64.0	
553.9	CARBONDALE		SHALE	5.0	76.0	SOFT
548.9	CARBONDALE	COLCHESTER	COAL	2.2	81.0	GOOD
546.7	CARBONDALE		UNDERCLAY	1.8	83.2	

MAPID: 05786938000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 7 QUARTERS/FOOTAGES: NW SE

QUADRANGLE: IPAVA LONGITUDE: -90.321598 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.339534 DATE COLLECTED: 5 / 22 / 1961

SURFACE ELEVATION (FT.): 631.5 LOGGED (FT.): 118.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE V305 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
631.5	PLEISTOCENE		CLAY	21.0	0.0	
610.5	PLEISTOCENE		CLAY	4.0	21.0	
606.5	PLEISTOCENE		CLAY	3.0	25.0	
603.5	CARBONDALE		SANDY SHALE	42.0	28.0	
561.5	CARBONDALE		BLACK SHALE	4.0	70.0	
557.5	CARBONDALE		SHALE	36.0	74.0	
521.5	CARBONDALE		SHALE	2.0	110.0	SOFT
519.5	CARBONDALE	COLCHESTER	COAL	1.8	112.0	GOOD
517.7	CARBONDALE		UNDERCLAY	1.3	113.8	
516.5	CARBONDALE		SHALE	3.0	115.0	

MAPID: 05786940000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 7 QUARTERS/FOOTAGES: 660' N line, 25' W line of SW NW

QUADRANGLE: IPAVA LONGITUDE: -90.333651 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.342993 DATE COLLECTED: 5 / 17 / 1976

SURFACE ELEVATION (FT.): 630.5 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log

SOURCE: AMAX V326 WELL TYPE: Coal Test

COMMENT: NORTHEAST BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
630.5	PLEISTOCENE		SILT	1.0	0.0
629.5	PLEISTOCENE		CLAY	11.0	1.0
618.5	PLEISTOCENE		UNCONSOLIDATED	18.0	12.0
600.5	CARBONDALE		GRAY SHALE	26.0	30.0
574.5	CARBONDALE		LIMESTONE	1.0	56.0
573.5	CARBONDALE		SANDY SHALE	6.0	57.0
567.5	CARBONDALE		GRAY SHALE	34.0	63.0
533.5	CARBONDALE	COLCHESTER	COAL	2.0	97.0
531.5	CARBONDALE		UNDERCLAY	2.0	99.0
529.5	CARBONDALE		MICACEOUS SHALE	7.0	101.0

MAPID: 05786937000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 8 QUARTERS/FOOTAGES: 20' S line, 15' E line of NW SE

QUADRANGLE: IPAVA LONGITUDE: -90.299365 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.337553 DATE COLLECTED: 10 / 15 / 1975

SURFACE ELEVATION (FT.): 632.6 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log

SOURCE: AMAX V265 WELL TYPE: Coal Test

COMMENT: IPAVA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
632.6	PLEISTOCENE		SILT	1.0	0.0
631.6	PLEISTOCENE		CLAY	9.0	1.0
622.6	PLEISTOCENE		UNCONSOLIDATED	18.0	10.0
604.6	CARBONDALE		SANDY SHALE	76.0	28.0
528.6	CARBONDALE	COLCHESTER	COAL	2.2	104.0
526.4	CARBONDALE		UNDERCLAY	1.8	106.2

MAPID: 05786939000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 8 QUARTERS/FOOTAGES: 0' N line, 10' E line of SW NE

QUADRANGLE: IPAVA LONGITUDE: -90.299163 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.344742 DATE COLLECTED: 10 / 13 / 1975

SURFACE ELEVATION (FT.): 637.1 LOGGED (FT.): 118.0 LOG TYPE: Drillers Log

SOURCE: AMAX V315 WELL TYPE: Coal Test

COMMENT: SUNSPOT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
637.1	PLEISTOCENE		SILT	2.0	0.0	
635.1	PLEISTOCENE		CLAY	6.0	2.0	
629.1	PLEISTOCENE		UNCONSOLIDATED	16.0	8.0	
613.1	CARBONDALE		SANDY SHALE	87.5	24.0	
525.6	CARBONDALE	COLCHESTER	COAL	2.1	111.5	
523.5	CARBONDALE		UNDERCLAY	1.4	113.6	
522.1	CARBONDALE		GRAY SHALE	3.0	115.0	

MAPID: 05700011000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 9 QUARTERS/FOOTAGES: 1' S line, 1' W line of NW SE

QUADRANGLE: IPAVA LONGITUDE: -90.28526 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.338063 DATE COLLECTED: 2 / 0 / 1929

SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 45.0 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.0			UNCONSOLIDATED	25.0	0.0	
585.0	CARBONDALE	PURINGTON	SANDY SHALE	6.0	25.0	
579.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.5	31.0	FISSILE
578.5	CARBONDALE	COLCHESTER	COAL	13.5	31.5	BS CARBONDALE,7-FT SH PTG

MAPID: 05700011000C VERSION: 2

PROJECT: NCRDS87

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 9 QUARTERS/FOOTAGES: 1' S line, 1' W line of NW SE

QUADRANGLE: IPAVA LONGITUDE: -90.28526 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 40.338063 DATE COLLECTED: 2 / 0 / 1929

SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 45.0 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT: ELEVATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.0			UNCONSOLIDATED	25.0	0.0	
585.0	CARBONDALE		UNCLASSIFIED	6.0	25.0	
579.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.5	31.0	
578.5	CARBONDALE	COLCHESTER	COAL	4.4	31.5	
574.1	SPOON		SHALE	7.0	35.9	
567.1	SPOON	ABINGDON	COAL	2.1	42.9	UNCERTAIN CORRELATION

MAPID: 05786936000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 9 QUARTERS/FOOTAGES: 660' S line, 690' W line of SW SW

QUADRANGLE: IPAVA LONGITUDE: -90.292195 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.335589 DATE COLLECTED: 10 / 17 / 1975

SURFACE ELEVATION (FT.): 618.7 LOGGED (FT.): 103.0 LOG TYPE: Drillers Log

SOURCE: AMAX V243 WELL TYPE: Coal Test

COMMENT: IPAVA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
618.7	PLEISTOCENE		SILT	1.0	0.0	
617.7	PLEISTOCENE		CLAY	9.0	1.0	
608.7	PLEISTOCENE		UNCONSOLIDATED	18.0	10.0	
590.7	CARBONDALE		GRAY SHALE	10.0	28.0	
580.7	CARBONDALE		SANDY SHALE	60.5	38.0	
520.2	CARBONDALE	COLCHESTER	COAL	2.2	98.5	
518.0	CARBONDALE		UNDERCLAY	2.3	100.7	

MAPID: 05786524000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 11 QUARTERS/FOOTAGES: 1' S line, 1' E line of SE SE
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.238082 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.334955 DATE COLLECTED: 7 / 18 / 1961
 SURFACE ELEVATION (FT.): 592.0 LOGGED (FT.): 84.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE MM217 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
592.0	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
586.0	PLEISTOCENE		CLAY	17.0	6.0	
569.0	PLEISTOCENE		CLAY	5.0	23.0	
564.0	CARBONDALE		GRAY SHALE	7.0	28.0	
557.0	CARBONDALE		SANDY SHALE	44.3	35.0	
512.7	CARBONDALE	COLCHESTER	COAL	2.2	79.3	GOOD
510.5	CARBONDALE		UNDERCLAY	2.5	81.5	

MAPID: 05786702000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 11 QUARTERS/FOOTAGES: 0' S line, 0' E line of SE SE
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.238078 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.334955 DATE COLLECTED: 7 / 18 / 1961
 SURFACE ELEVATION (FT.): 592.0 LOGGED (FT.): 84.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE MM217 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
592.0	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
586.0	PLEISTOCENE		CLAY	17.0	6.0	
569.0	PLEISTOCENE		CLAY	5.0	23.0	
564.0	CARBONDALE		GRAY SHALE	7.0	28.0	
557.0	CARBONDALE		SANDY SHALE	44.3	35.0	
512.7	CARBONDALE	COLCHESTER	COAL	2.2	79.3	GOOD
510.5	CARBONDALE		UNDERCLAY	2.5	81.5	

MAPID: 05786705000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 11 QUARTERS/FOOTAGES: 0' N line, 0' W line of NW SW
 QUADRANGLE: IPAVA LONGITUDE: -90.256239 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.341378 DATE COLLECTED: 8 / 1 / 1961
 SURFACE ELEVATION (FT.): 610.5 LOGGED (FT.): 105.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE MM309 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.5	PLEISTOCENE		CLAY	4.0	0.0	
606.5	PLEISTOCENE		CLAY	9.0	4.0	
597.5	PLEISTOCENE		CLAY	15.0	13.0	
582.5	CARBONDALE		SANDY SHALE	73.0	28.0	
509.5	CARBONDALE	COLCHESTER	COAL	2.1	101.0	GOOD
507.4	CARBONDALE		UNDERCLAY	1.9	103.1	

MAPID: 05786525000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 12 QUARTERS/FOOTAGES: 1' S line, 1' E line of SE SW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.228283 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.334811 DATE COLLECTED: 9 / 10 / 1965
 SURFACE ELEVATION (FT.): 558.4 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE MM221 WELL TYPE: Coal Test
 COMMENT: W. DUNCAN MILLS BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
558.4	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
552.4	PLEISTOCENE		CLAY	24.0	6.0	
528.4	CARBONDALE		SANDY SHALE	34.0	30.0	
494.4	CARBONDALE	COLCHESTER	COAL	2.1	64.0	GOOD
492.3	CARBONDALE		UNDERCLAY	1.9	66.1	

MAPID: 05786703000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 12 QUARTERS/FOOTAGES: 0' S line, 0' W line of SW SE
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.22828 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.334809 DATE COLLECTED: 9 / 10 / 1965
 SURFACE ELEVATION (FT.): 558.4 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE MM221 WELL TYPE: Coal Test
 COMMENT: W. DUNCAN MILLS BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
558.4	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
552.4	PLEISTOCENE		CLAY	24.0	6.0	
528.4	CARBONDALE		SANDY SHALE	34.0	30.0	
494.4	CARBONDALE	COLCHESTER	COAL	2.1	64.0	GOOD
492.3	CARBONDALE		UNDERCLAY	1.9	66.1	

MAPID: 05786704000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 12 QUARTERS/FOOTAGES: 495' N line, 0' W line of SW SW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.23802 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.337254 DATE COLLECTED: 9 / 15 / 1965
 SURFACE ELEVATION (FT.): 590.2 LOGGED (FT.): 91.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE MM242J WELL TYPE: Coal Test
 COMMENT: W. DUNCAN MILLS BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
590.2	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0	
585.2	PLEISTOCENE		CLAY	7.0	5.0	
578.2	PLEISTOCENE		CLAY	14.0	12.0	
564.2	CARBONDALE		SANDY SHALE	40.0	26.0	
524.2	CARBONDALE		SANDY SHALE	21.0	66.0	LIGHT
503.2	CARBONDALE	COLCHESTER	COAL	2.3	87.0	GOOD
500.9	CARBONDALE		UNDERCLAY	1.8	89.3	

MAPID: 05786706000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 12 QUARTERS/FOOTAGES: 0' S line, 637' W line of NW NE

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.225695 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.345917 DATE COLLECTED: 9 / 17 / 1965

SURFACE ELEVATION (FT.): 574.4 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE MM372 WELL TYPE: Coal Test

COMMENT: W. DUNCAN MILLS BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
574.4	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0
564.4	PLEISTOCENE		CLAY	20.0	10.0
544.4	PLEISTOCENE		CLAY	17.0	30.0
527.4	CARBONDALE		SANDY SHALE	36.0	47.0
491.4	CARBONDALE	COLCHESTER	COAL	2.5	83.0
488.9	CARBONDALE		UNDERCLAY	1.5	85.5

MAPID: 05786523000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 13 QUARTERS/FOOTAGES: 1' S line, 1' E line of SW NE

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.223526 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.32712 DATE COLLECTED: 7 / 17 / 1961

SURFACE ELEVATION (FT.): 523.6 LOGGED (FT.): 38.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE MM123 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
523.6	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0
517.6	PLEISTOCENE		CLAY	8.0	6.0
509.6	CARBONDALE		GRAY SHALE	18.5	14.0
491.1	CARBONDALE	COLCHESTER	COAL	2.5	32.5
488.6	CARBONDALE		UNDERCLAY	2.0	35.0
486.6	CARBONDALE		GRAY SANDSTONE	1.0	37.0

MAPID: 05786701000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 13 QUARTERS/FOOTAGES: 0' N line, 0' W line of NW SW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.238185 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.327355 DATE COLLECTED: 7 / 17 / 1961
 SURFACE ELEVATION (FT.): 594.4 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE MM117 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
594.4	PLEISTOCENE		UNCONSOLIDATED	29.0	0.0	
565.4	CARBONDALE		SANDY SHALE	9.0	29.0	
556.4	CARBONDALE		GRAY SANDSTONE	8.8	38.0	SOFT
547.6	CARBONDALE		SANDSTONE/SHALE	23.2	46.8	
524.4	CARBONDALE		DARK SANDSTONE	7.0	70.0	
517.4	CARBONDALE		SANDSTONE/SHALE	6.0	77.0	
511.4	CARBONDALE	COLCHESTER	COAL	2.6	83.0	GOOD
508.8	CARBONDALE		UNDERCLAY	2.4	85.6	

MAPID: 05786522000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 14 QUARTERS/FOOTAGES: 1' N line, 1' E line of SW SW
 QUADRANGLE: IPAVA LONGITUDE: -90.252015 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.322972 DATE COLLECTED: 9 / 29 / 1961
 SURFACE ELEVATION (FT.): 594.3 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE MM61 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
594.3	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
583.3	PLEISTOCENE		CLAY	13.0	11.0	
570.3	PLEISTOCENE		CLAY	19.0	24.0	
551.3	CARBONDALE		SHALE	34.0	43.0	HARD
517.3	CARBONDALE	COLCHESTER	COAL	2.2	77.0	GOOD
515.1	CARBONDALE	COLCHESTER	COAL W/ BLACK SHALE	0.3	79.2	
514.9	CARBONDALE		UNDERCLAY	1.6	79.4	

MAPID: 0578670000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 14 QUARTERS/FOOTAGES: 0' N line, 0' E line of SW SW

QUADRANGLE: IPAVA LONGITUDE: -90.252012 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.322975 DATE COLLECTED: 9 / 29 / 1961

SURFACE ELEVATION (FT.): 594.3 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE MM61 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
594.3	PLEISTOCENE		CLAY	11.0	0.0	
583.3	PLEISTOCENE		CLAY	13.0	11.0	
570.3	PLEISTOCENE		CLAY	19.0	24.0	
551.3	CARBONDALE		SHALE	34.0	43.0	HARD
517.3	CARBONDALE	COLCHESTER	COAL	2.2	77.0	GOOD
515.1	CARBONDALE	COLCHESTER	COAL W/ BLACK SHALE	0.3	79.2	
514.9	CARBONDALE		UNDERCLAY	1.6	79.4	

MAPID: 05786521000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 15 QUARTERS/FOOTAGES: 1' S line, 660' W line of SW SE

QUADRANGLE: IPAVA LONGITUDE: -90.264237 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.319386 DATE COLLECTED: 3 / 31 / 1961

SURFACE ELEVATION (FT.): 601.6 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE MM6 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
601.6	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0	
586.6	PLEISTOCENE		CLAY	10.0	15.0	
576.6	PLEISTOCENE		CLAY	7.0	25.0	
569.6	CARBONDALE		SHALE	10.0	32.0	SOFT
559.6	CARBONDALE		SHALE	30.0	42.0	HARD
529.6	CARBONDALE	COLCHESTER	COAL	2.2	72.0	GOOD
527.4	CARBONDALE		UNDERCLAY	1.8	74.2	

MAPID: 05786698000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 15 QUARTERS/FOOTAGES: 0' S line, 660' W line of SW SE

QUADRANGLE: IPAVA LONGITUDE: -90.264237 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.319384 DATE COLLECTED: 3 / 31 / 1961

SURFACE ELEVATION (FT.): 601.6 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE MM6 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
601.6	PLEISTOCENE		CLAY	15.0	0.0	
586.6	PLEISTOCENE		CLAY	10.0	15.0	
576.6	PLEISTOCENE		CLAY	7.0	25.0	
569.6	CARBONDALE		SHALE	10.0	32.0	SOFT
559.6	CARBONDALE		SHALE	30.0	42.0	HARD
529.6	CARBONDALE	COLCHESTER	COAL	2.2	72.0	GOOD
527.4	CARBONDALE		UNDERCLAY	1.8	74.2	

MAPID: 05786699000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 15 QUARTERS/FOOTAGES: 660' S line, 660' W line of SW SW

QUADRANGLE: IPAVA LONGITUDE: -90.274122 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.32161 DATE COLLECTED: 9 / 10 / 1975

SURFACE ELEVATION (FT.): 522.0 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE MM27 WELL TYPE: Coal Test

COMMENT: IPAVA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
522.0	PLEISTOCENE		SILT	1.0	0.0	
521.0	PLEISTOCENE		SAND & GRAVEL	19.0	1.0	
502.0	TRADEWATER		GRAY SHALE	25.0	20.0	
477.0	TRADEWATER		SHALE	2.0	45.0	
475.0	TRADEWATER	ROCK ISLAND	COAL	1.5	47.0	
473.5	TRADEWATER		UNDERCLAY	1.5	48.5	
472.0	TRADEWATER		SANDY SHALE	17.5	50.0	
454.5	TRADEWATER	POPE CREEK	COAL	1.0	67.5	
453.5	TRADEWATER		UNDERCLAY	1.5	68.5	
452.0	TRADEWATER		SANDY SHALE	8.0	70.0	
444.0	TRADEWATER		GRAY SHALE	20.0	78.0	

MAPID: 05786934000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 16 QUARTERS/FOOTAGES: NW NW

QUADRANGLE: IPAVA LONGITUDE: -90.292607 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.332454 DATE COLLECTED: 4 / 26 / 1961

SURFACE ELEVATION (FT.): 618.8 LOGGED (FT.): 103.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE V217 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
618.8	PLEISTOCENE		CLAY	4.0	0.0	
614.8	PLEISTOCENE		CLAY	13.0	4.0	
601.8	PLEISTOCENE		CLAY	16.0	17.0	
585.8	CARBONDALE		SANDY SHALE	56.0	33.0	
529.8	CARBONDALE		BLACK SHALE	3.0	89.0	
526.8	CARBONDALE		SHALE	7.0	92.0	
519.8	CARBONDALE	COLCHESTER	COAL	2.4	99.0	GOOD
517.4	CARBONDALE		UNDERCLAY	1.6	101.4	

MAPID: 05786971000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 16 QUARTERS/FOOTAGES: SW SE

QUADRANGLE: IPAVA LONGITUDE: -90.283212 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.320736 DATE COLLECTED: 4 / 7 / 1961

SURFACE ELEVATION (FT.): 571.7 LOGGED (FT.): 107.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE V21 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
571.7	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
564.7	PLEISTOCENE		CLAY	11.0	7.0	
553.7	PLEISTOCENE		CLAY	29.0	18.0	
524.7	TRADEWATER		SANDY SHALE	10.0	47.0	HARD
514.7	TRADEWATER		MICACEOUS SHALE	7.0	57.0	SOFT
507.7	TRADEWATER		LIMESTONE	2.0	64.0	
505.7	TRADEWATER		MICACEOUS SHALE	28.0	66.0	SOFT
477.7	TRADEWATER		BLACK SHALE	2.0	94.0	
475.7	TRADEWATER	ROCK ISLAND	COAL	2.3	96.0	GOOD
473.4	TRADEWATER		SANDY SHALE	8.8	98.3	

MAPID: 05786972000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 16 QUARTERS/FOOTAGES: NW SE

QUADRANGLE: IPAVA LONGITUDE: -90.283209 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.32436 DATE COLLECTED: 4 / 27 / 1961

SURFACE ELEVATION (FT.): 601.7 LOGGED (FT.): 93.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE V123 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
601.7	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
594.7	PLEISTOCENE		CLAY	12.0	7.0	
582.7	PLEISTOCENE		SAND & GRAVEL	42.0	19.0	
540.7	CARBONDALE		SANDY SHALE	28.0	61.0	
512.7	CARBONDALE	COLCHESTER	COAL	1.0	89.0	GOOD
511.7	CARBONDALE	COLCHESTER	COAL	0.2	90.0	SOFT
511.5	CARBONDALE	COLCHESTER	COAL	1.1	90.2	GOOD
510.4	CARBONDALE		UNDERCLAY	1.8	91.3	

MAPID: 05786970000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 17 QUARTERS/FOOTAGES: 60' S line, 40' W line of SW SW

QUADRANGLE: IPAVA LONGITUDE: -90.315435 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.32047 DATE COLLECTED: 2 / 6 / 1961

SURFACE ELEVATION (FT.): 582.8 LOGGED (FT.): 38.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE V9 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
582.8	PLEISTOCENE		CLAY	10.0	0.0	
572.8	CARBONDALE		SANDY SHALE	25.0	10.0	
547.8	CARBONDALE	COLCHESTER	COAL	1.8	35.0	GOOD
546.0	CARBONDALE		UNDERCLAY	1.2	36.8	

MAPID: 05786974000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 17 QUARTERS/FOOTAGES: 0' N line, 75' E line of SE NW

QUADRANGLE: IPAVA LONGITUDE: -90.304432 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.330446 DATE COLLECTED: 2 / 28 / 1961

SURFACE ELEVATION (FT.): 603.3 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE V113 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
603.3	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
596.3	PLEISTOCENE		CLAY	21.0	7.0	
575.3	PLEISTOCENE		SAND & GRAVEL	20.0	28.0	
555.3	CARBONDALE		SANDY SHALE	21.0	48.0	
534.3	CARBONDALE		SHALE	5.0	69.0	SOFT
529.3	CARBONDALE	COLCHESTER	COAL	2.2	74.0	SOFT, WILL LOAD
527.1	CARBONDALE		UNDERCLAY	1.8	76.2	

MAPID: 05786976000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 17 QUARTERS/FOOTAGES: NE NE

QUADRANGLE: IPAVA LONGITUDE: -90.297061 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.331889 DATE COLLECTED: 4 / 26 / 1961

SURFACE ELEVATION (FT.): 617.6 LOGGED (FT.): 94.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE V165 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
617.6	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
610.6	PLEISTOCENE		CLAY	19.0	7.0	
591.6	PLEISTOCENE		SAND & GRAVEL	23.0	26.0	
568.6	CARBONDALE		SANDY SHALE	42.0	49.0	
526.6	CARBONDALE	COLCHESTER	COAL	1.9	91.0	GOOD
524.7	CARBONDALE		UNDERCLAY	1.1	92.9	

MAPID: 0578676000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 18 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SW

QUADRANGLE: IPAVA LONGITUDE: -90.334377 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.322634 DATE COLLECTED: 12 / 31 / 1960

SURFACE ELEVATION (FT.): 622.7 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE X75 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.7	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
615.7	PLEISTOCENE		CLAY	11.0	7.0	
604.7	PLEISTOCENE		SAND & GRAVEL	23.0	18.0	
581.7	CARBONDALE		SANDY SHALE	36.0	41.0	
545.7	CARBONDALE	COLCHESTER	COAL	1.8	77.0	GOOD
543.9	CARBONDALE		UNDERCLAY	1.2	78.8	

MAPID: 05786933000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 18 QUARTERS/FOOTAGES: SW SW

QUADRANGLE: IPAVA LONGITUDE: -90.331265 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.321042 DATE COLLECTED: 12 / 30 / 1960

SURFACE ELEVATION (FT.): 624.6 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE W601 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
624.6	PLEISTOCENE		CLAY	9.0	0.0	
615.6	PLEISTOCENE		CLAY	10.0	9.0	
605.6	PLEISTOCENE		CLAY	18.0	19.0	
587.6	CARBONDALE		DARK SHALE	49.0	37.0	SOFT
538.6	CARBONDALE	COLCHESTER	COAL	2.2	86.0	GOOD
536.4	CARBONDALE		UNDERCLAY	1.8	88.2	

MAPID: 05786973000C **VERSION:** 1 **PROJECT:** NCRDS 02
COUNTY: FULTON **TWP/RNG:** 4N 2E **SECTION:** 18 **QUARTERS/FOOTAGES:** 660' S line, 0' E line of NW SE
QUADRANGLE: IPAVA **LONGITUDE:** -90.319344 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.324819 **DATE COLLECTED:** 1 / 4 / 1961
SURFACE ELEVATION (FT.): 624.0 **LOGGED (FT.):** 81.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE V80 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
624.0	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0	
609.0	PLEISTOCENE		CLAY	12.0	15.0	
597.0	PLEISTOCENE		SAND & GRAVEL	30.0	27.0	
567.0	CARBONDALE		SHALE	21.0	57.0	SOFT
546.0	CARBONDALE	COLCHESTER	COAL	1.8	78.0	GOOD
544.2	CARBONDALE		UNDERCLAY	1.2	79.8	

MAPID: 05786975000C **VERSION:** 1 **PROJECT:** NCRDS 02
COUNTY: FULTON **TWP/RNG:** 4N 2E **SECTION:** 18 **QUARTERS/FOOTAGES:** 0' N line, 660' E line of NW NW
QUADRANGLE: IPAVA **LONGITUDE:** -90.331383 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.33398 **DATE COLLECTED:** 1 / 12 / 1961
SURFACE ELEVATION (FT.): 626.9 **LOGGED (FT.):** 85.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE V152 **WELL TYPE:** Coal Test
COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
626.9	PLEISTOCENE		CLAY	6.0	0.0	
620.9	PLEISTOCENE		CLAY	7.0	6.0	
613.9	PLEISTOCENE		CLAY	33.0	13.0	
580.9	CARBONDALE		DARK SHALE	35.0	46.0	SOFT
545.9	CARBONDALE	COLCHESTER	COAL	2.1	81.0	GOOD
543.8	CARBONDALE		UNDERCLAY	1.9	83.1	

MAPID: 05701127000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: FULTON **TWP/RNG:** 4N 2E **SECTION:** 19 **QUARTERS/FOOTAGES:** 200' S line, 100' W line
QUADRANGLE: IPAVA **LONGITUDE:** -90.334518 **GEOLOGIST:** MCCRACKEN
CONFIDENTIAL: N **LATITUDE:** 40.304931 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 70.0 **LOG TYPE:** Drillers Log
SOURCE: DONAN CE-3 **WELL TYPE:** Coal Test
COMMENT: YEAR OF DATA QUESTIONABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		LOESS	47.0	0.0	
-	PLEISTOCENE		SAND	3.0	47.0	
-	PLEISTOCENE		UNCONSOLIDATED	20.0	50.0	

MAPID: 05701127000C **VERSION:** 2 **PROJECT:** AVAIL
COUNTY: FULTON **TWP/RNG:** 4N 2E **SECTION:** 19 **QUARTERS/FOOTAGES:** 200' S line, 100' W line
QUADRANGLE: IPAVA **LONGITUDE:** -90.334518 **GEOLOGIST:** UITEMP
CONFIDENTIAL: N **LATITUDE:** 40.304931 **DATE COLLECTED:** 0 / 0 / 1925
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 70.0 **LOG TYPE:** Drillers Log
SOURCE: DONAN CE-3 **WELL TYPE:**
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
-	PLEISTOCENE		SILTY CLAY	47.0	0.0	BROWN
-	PLEISTOCENE		SAND	3.0	47.0	BROWN
-	PLEISTOCENE		SANDY CLAY	20.0	50.0	GRAY

MAPID: 05786918000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 4N 2E **SECTION:** 19 **QUARTERS/FOOTAGES:** 330' N line, 0' E line of SE SW
QUADRANGLE: IPAVA **LONGITUDE:** -90.325057 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.307078 **DATE COLLECTED:** 1 / 20 / 1961
SURFACE ELEVATION (FT.): 606.7 **LOGGED (FT.):** 66.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE W428C **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
606.7			UNKNOWN	63.0	0.0	
543.7	CARBONDALE	COLCHESTER	COAL	2.0	63.0	
541.7	CARBONDALE		UNDERCLAY	1.0	65.0	

MAPID: 05786932000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 4N 2E **SECTION:** 19 **QUARTERS/FOOTAGES:** 990' N line, 345' W line of SE NW
QUADRANGLE: IPAVA **LONGITUDE:** -90.328553 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.312512 **DATE COLLECTED:** 10 / 16 / 1968
SURFACE ELEVATION (FT.): 612.2 **LOGGED (FT.):** 77.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE W503A **WELL TYPE:** Coal Test
COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
612.2	PLEISTOCENE		UNCONSOLIDATED	25.0	0.0	
587.2	PLEISTOCENE		CLAY	13.0	25.0	
574.2	CARBONDALE		SANDY SHALE	35.0	38.0	
539.2	CARBONDALE	COLCHESTER	COAL	1.8	73.0	
537.4	CARBONDALE		UNDERCLAY	2.2	74.8	

MAPID: 05786919000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 4N 2E **SECTION:** 20 **QUARTERS/FOOTAGES:** SE SE
QUADRANGLE: IPAVA **LONGITUDE:** -90.297698 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.306051 **DATE COLLECTED:** 8 / 24 / 1961
SURFACE ELEVATION (FT.): 571.4 **LOGGED (FT.):** 53.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE W417 **WELL TYPE:** Coal Test
COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
571.4	PLEISTOCENE		CLAY	2.0	0.0	
569.4	PLEISTOCENE		CLAY	6.0	2.0	
563.4	PLEISTOCENE		CLAY	9.0	8.0	
554.4	CARBONDALE		SANDSTONE	5.0	17.0	SOFT
549.4	CARBONDALE		SANDSTONE	12.0	22.0	HARD
537.4	CARBONDALE		DARK SHALE	15.0	34.0	SOFT
522.4	CARBONDALE	COLCHESTER	COAL	2.0	49.0	GOOD
520.4	CARBONDALE		UNDERCLAY	2.0	51.0	

MAPID: 05701128000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: FULTON **TWP/RNG:** 4N 2E **SECTION:** 21 **QUARTERS/FOOTAGES:** 2000' N line, 2400' E line
QUADRANGLE: IPAVA **LONGITUDE:** -90.285373 **GEOLOGIST:** MCCRACKEN
CONFIDENTIAL: N **LATITUDE:** 40.313903 **DATE COLLECTED:** 10 / 24 / 1958
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 80.0 **LOG TYPE:** Drillers Log
SOURCE: DONAN CE-4 **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		LOESS	30.0	0.0	
-	PLEISTOCENE		UNCONSOLIDATED	50.0	30.0	

MAPID: 05701128000C **VERSION:** 2 **PROJECT:** AVAIL
COUNTY: FULTON **TWP/RNG:** 4N 2E **SECTION:** 21 **QUARTERS/FOOTAGES:** 2000' N line, 2400' E line
QUADRANGLE: IPAVA **LONGITUDE:** -90.285373 **GEOLOGIST:** UITEMP
CONFIDENTIAL: N **LATITUDE:** 40.313903 **DATE COLLECTED:** 0 / 0 / 1958
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 80.0 **LOG TYPE:** Drillers Log
SOURCE: DONAN CE-4 **WELL TYPE:**
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		SILTY CLAY	30.0	0.0	BROWN
-	PLEISTOCENE		UNCONSOLIDATED	20.0	30.0	GRAY
-	PLEISTOCENE		SANDY CLAY	30.0	50.0	GRAY

MAPID: 05786485000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 22 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SE
 QUADRANGLE: IPAVA LONGITUDE: -90.266979 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.304556 DATE COLLECTED: 11 / 29 / 1960
 SURFACE ELEVATION (FT.): 563.7 LOGGED (FT.): 57.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE KK405 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
563.7	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
553.7	PLEISTOCENE		CLAY	5.0	10.0	
548.7	PLEISTOCENE		CLAY	10.0	15.0	
538.7	CARBONDALE		SHALE	5.0	25.0	SOFT
533.7	CARBONDALE		SHALE	23.0	30.0	HARD
510.7	CARBONDALE	COLCHESTER	COAL	2.1	53.0	HARD, GOOD
508.6	CARBONDALE		UNDERCLAY	1.9	55.1	

MAPID: 05786520000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 22 QUARTERS/FOOTAGES: 1' N line, 1' W line of NW NE
 QUADRANGLE: IPAVA LONGITUDE: -90.266611 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.319479 DATE COLLECTED: 4 / 3 / 1961
 SURFACE ELEVATION (FT.): 598.8 LOGGED (FT.): 71.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE MM5 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
598.8	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0	
578.8	PLEISTOCENE		CLAY	10.0	20.0	
568.8	PLEISTOCENE		CLAY	30.0	30.0	SAND
538.8	CARBONDALE		SHALE	7.0	60.0	HARD
531.8	CARBONDALE	COLCHESTER	COAL	2.2	67.0	GOOD
529.6	CARBONDALE		UNDERCLAY	1.8	69.2	

MAPID: 05786697000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 22 QUARTERS/FOOTAGES: 0' N line, 0' W line of NW NE
 QUADRANGLE: IPAVA LONGITUDE: -90.266614 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.319482 DATE COLLECTED: 4 / 3 / 1961
 SURFACE ELEVATION (FT.): 598.8 LOGGED (FT.): 71.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE MM5 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
598.8	PLEISTOCENE		CLAY	20.0	0.0	
578.8	PLEISTOCENE		CLAY	10.0	20.0	
568.8	PLEISTOCENE		CLAY	30.0	30.0	
538.8	CARBONDALE		SHALE	7.0	60.0	HARD
531.8	CARBONDALE	COLCHESTER	COAL	2.2	67.0	GOOD
529.6	CARBONDALE		UNDERCLAY	1.8	69.2	

MAPID: 05786487000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 23 QUARTERS/FOOTAGES: 1' N line, 1' E line of NE NW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.247488 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.31941 DATE COLLECTED: 9 / 30 / 1961
 SURFACE ELEVATION (FT.): 586.0 LOGGED (FT.): 66.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE KK613 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
586.0	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
577.0	PLEISTOCENE		CLAY	26.0	9.0	
551.0	PLEISTOCENE		CLAY	14.0	35.0	
537.0	CARBONDALE		SANDY SHALE	11.0	49.0	
526.0	CARBONDALE		SHALE	3.0	60.0	
523.0	CARBONDALE	COLCHESTER	COAL	1.7	63.0	FAIR. WILL LOAD
521.3	CARBONDALE	COLCHESTER	COAL W/ BLACK SHALE	0.2	64.7	
521.2	CARBONDALE		UNDERCLAY	1.2	64.8	

MAPID: 05786486000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 24 QUARTERS/FOOTAGES: 1' S line, 1' E line of SE NE
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.218983 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.312116 DATE COLLECTED: 12 / 9 / 1960
 SURFACE ELEVATION (FT.): 567.9 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE KK525 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
567.9	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0	
552.9	PLEISTOCENE		CLAY	10.0	15.0	
542.9	PLEISTOCENE		CLAY	25.0	25.0	
517.9	CARBONDALE		SHALE	14.0	50.0	SOFT
503.9	CARBONDALE	COLCHESTER	COAL	2.1	64.0	GOOD
501.8	CARBONDALE		UNDERCLAY	0.9	66.1	

MAPID: 05786774000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 25 QUARTERS/FOOTAGES: SW SW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.236324 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.291877 DATE COLLECTED: 4 / 6 / 1960
 SURFACE ELEVATION (FT.): 482.1 LOGGED (FT.): 40.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE KK217 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
482.1	PLEISTOCENE		CLAY	10.0	0.0	
472.1	PLEISTOCENE		CLAY	10.0	10.0	
462.1	PLEISTOCENE		CLAY	5.0	20.0	
457.1			COAL	1.5	25.0	TOP ERODED; #1?
455.6			UNDERCLAY	2.0	26.5	
453.6			SANDY SHALE	10.0	28.5	HARD
443.6			LIMESTONE	1.5	38.5	

MAPID: 05786482000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 27 QUARTERS/FOOTAGES: 1' N line, 1' E line of NE SW
 QUADRANGLE: IPAVA LONGITUDE: -90.267113 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.297069 DATE COLLECTED: 12 / 8 / 1960
 SURFACE ELEVATION (FT.): 579.8 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE KK305 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
579.8	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
569.8	PLEISTOCENE		CLAY	10.0	10.0	
559.8	PLEISTOCENE		CLAY	7.0	20.0	
552.8	CARBONDALE		SHALE	25.0	27.0	SOFT
527.8	CARBONDALE		SHALE	20.0	52.0	HARD
507.8	CARBONDALE	COLCHESTER	COAL	2.2	72.0	
505.6	CARBONDALE		UNDERCLAY	1.8	74.2	

MAPID: 05786772000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 27 QUARTERS/FOOTAGES: 0' N line, 660' E line of SW SW
 QUADRANGLE: IPAVA LONGITUDE: -90.273471 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.293255 DATE COLLECTED: 12 / 1 / 1960
 SURFACE ELEVATION (FT.): 606.4 LOGGED (FT.): 91.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE KK202 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
606.4	PLEISTOCENE		CLAY	11.0	0.0	
595.4	PLEISTOCENE		CLAY	12.0	11.0	
583.4	PLEISTOCENE		CLAY	8.0	23.0	
575.4	CARBONDALE		SANDY SHALE	56.0	31.0	
519.4	CARBONDALE	COLCHESTER	COAL	2.3	87.0	GOOD
517.1	CARBONDALE		UNDERCLAY	1.8	89.3	

MAPID: 05786773000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 27 QUARTERS/FOOTAGES: 132' S line, 42' W line of SE SE

QUADRANGLE: IPAVA LONGITUDE: -90.26147 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.289914 DATE COLLECTED: 11 / 10 / 1960

SURFACE ELEVATION (FT.): 559.1 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE KK207 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
559.1	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
549.1	PLEISTOCENE		CLAY	15.0	10.0	
534.1	CARBONDALE		DARK SHALE	10.0	25.0	SOFT
524.1	CARBONDALE		MICACEOUS SHALE	28.0	35.0	HARD
496.1	CARBONDALE	COLCHESTER	COAL	2.3	63.0	GOOD
493.8	CARBONDALE		UNDERCLAY	1.8	65.3	

MAPID: 05786917000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 27 QUARTERS/FOOTAGES: NW NW

QUADRANGLE: IPAVA LONGITUDE: -90.274116 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.302639 DATE COLLECTED: 12 / 6 / 1960

SURFACE ELEVATION (FT.): 586.4 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE W375 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
586.4	PLEISTOCENE		CLAY	10.0	0.0	
576.4	PLEISTOCENE		CLAY	5.0	10.0	
571.4	PLEISTOCENE		CLAY	10.0	15.0	
561.4	CARBONDALE		SHALE	20.0	25.0	SOFT
541.4	CARBONDALE		SHALE	23.0	45.0	HARD
518.4	CARBONDALE	COLCHESTER	COAL	2.1	68.0	GOOD
516.3	CARBONDALE		UNDERCLAY	1.9	70.1	

MAPID: 05786912000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 4N 2E **SECTION:** 28 **QUARTERS/FOOTAGES:** SW SW
QUADRANGLE: IPAVA **LONGITUDE:** -90.29364 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.291287 **DATE COLLECTED:** 2 / 7 / 1961
SURFACE ELEVATION (FT.): 607.2 **LOGGED (FT.):** 96.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE W217 **WELL TYPE:** Coal Test
COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
607.2	PLEISTOCENE		CLAY	20.0	0.0	
587.2	PLEISTOCENE		CLAY	20.0	20.0	
567.2	PLEISTOCENE		CLAY	10.0	40.0	
557.2	CARBONDALE		SANDY SHALE	43.0	50.0	HARD
514.2	CARBONDALE	COLCHESTER	COAL	1.7	93.0	GOOD
512.5	CARBONDALE		UNDERCLAY	1.3	94.7	

MAPID: 05786914000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 4N 2E **SECTION:** 28 **QUARTERS/FOOTAGES:** SE SE
QUADRANGLE: IPAVA **LONGITUDE:** -90.279869 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.291442 **DATE COLLECTED:** 12 / 6 / 1960
SURFACE ELEVATION (FT.): 605.6 **LOGGED (FT.):** 96.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE W273 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
605.6	PLEISTOCENE		CLAY	9.0	0.0	
596.6	PLEISTOCENE		CLAY	7.0	9.0	
589.6	PLEISTOCENE		CLAY	9.0	16.0	
580.6	CARBONDALE		SANDY SHALE	34.0	25.0	LIGHT
546.6	CARBONDALE		DARK SHALE	33.0	59.0	
513.6	CARBONDALE	COLCHESTER	COAL	2.3	92.0	
511.3	CARBONDALE		UNDERCLAY	1.7	94.3	

MAPID: 05786916000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 28 QUARTERS/FOOTAGES: 0' N line, 660' W line of NE NE
 QUADRANGLE: IPAVA LONGITUDE: -90.279359 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.30476 DATE COLLECTED: 12 / 8 / 1960
 SURFACE ELEVATION (FT.): 566.4 LOGGED (FT.): 52.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE W374 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
566.4	PLEISTOCENE		CLAY	2.0	0.0	
564.4	CARBONDALE		SANDSTONE	23.0	2.0	
541.4	CARBONDALE		DARK SHALE	23.0	25.0	HARD
518.4	CARBONDALE	COLCHESTER	COAL	2.0	48.0	GOOD
516.4	CARBONDALE		UNDERCLAY	2.0	50.0	

MAPID: 05786913000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 1' E line of SW SW
 QUADRANGLE: IPAVA LONGITUDE: -90.309804 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.28958 DATE COLLECTED: 1 / 13 / 1960
 SURFACE ELEVATION (FT.): 598.0 LOGGED (FT.): 54.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE W261 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
598.0	PLEISTOCENE		UNCONSOLIDATED	21.0	0.0	
577.0	PLEISTOCENE		CLAY	15.0	21.0	
562.0	CARBONDALE		SANDY SHALE	12.0	36.0	LIGHT
550.0	CARBONDALE		DARK SHALE	2.0	48.0	SOFT
548.0	CARBONDALE	COLCHESTER	COAL	2.3	50.0	FAIR
545.7	CARBONDALE		UNDERCLAY	1.8	52.3	

MAPID: 05786915000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 30 QUARTERS/FOOTAGES: 660' S line, 660' E line of SW NW
 QUADRANGLE: IPAVA LONGITUDE: -90.332804 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.298764 DATE COLLECTED: 1 / 18 / 1961
 SURFACE ELEVATION (FT.): 604.2 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE W327 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
604.2	PLEISTOCENE		CLAY	10.0	0.0	
594.2	PLEISTOCENE		CLAY	11.0	10.0	
583.2	PLEISTOCENE		CLAY	49.0	21.0	
534.2	TRADEWATER		MICACEOUS SHALE	13.0	70.0	HARD
521.2	TRADEWATER	ROCK ISLAND	COAL	1.1	83.0	GOOD
520.1	TRADEWATER		SHALE	2.9	84.1	HARD

MAPID: 05786589000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 31 QUARTERS/FOOTAGES: 825' N line, 1' E line of SW SW
 QUADRANGLE: IPAVA LONGITUDE: -90.330918 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.276621 DATE COLLECTED: 1 / 27 / 1960
 SURFACE ELEVATION (FT.): 575.4 LOGGED (FT.): 40.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE W3D WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
575.4	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
565.4	PLEISTOCENE		CLAY	5.0	10.0	
560.4	PLEISTOCENE		CLAY	6.0	15.0	
554.4	CARBONDALE		SHALE	15.0	21.0	SOFT
539.4	CARBONDALE	COLCHESTER	COAL	2.2	36.0	GOOD
537.2	CARBONDALE		UNDERCLAY	1.8	38.2	

MAPID: 05786911000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 4N 2E **SECTION:** 31 **QUARTERS/FOOTAGES:** NW NW
QUADRANGLE: IPAVA **LONGITUDE:** -90.332955 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.287907 **DATE COLLECTED:** 2 / 10 / 1961
SURFACE ELEVATION (FT.): 602.2 **LOGGED (FT.):** 59.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE W153 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
602.2	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
593.2	PLEISTOCENE		CLAY	9.0	9.0	
584.2	PLEISTOCENE		SAND & GRAVEL	24.0	18.0	
560.2	CARBONDALE		SHALE	13.0	42.0	SOFT
547.2	CARBONDALE	COLCHESTER	COAL	2.3	55.0	GOOD
544.9	CARBONDALE		UNDERCLAY	1.8	57.3	

MAPID: 05786928000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 4N 2E **SECTION:** 31 **QUARTERS/FOOTAGES:** 660' N line, 330' W line of SE SE
QUADRANGLE: IPAVA **LONGITUDE:** -90.320363 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.277048 **DATE COLLECTED:** 2 / 12 / 1969
SURFACE ELEVATION (FT.): 598.1 **LOGGED (FT.):** 57.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE W32B **WELL TYPE:** Coal Test
COMMENT: SOUTH FIELD BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
598.1	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
592.1	PLEISTOCENE		CLAY	14.0	6.0	
578.1	PLEISTOCENE		CLAY	15.0	20.0	
563.1	CARBONDALE		GRAY SHALE	18.0	35.0	
545.1	CARBONDALE	COLCHESTER	COAL	2.2	53.0	HARD
542.9	CARBONDALE		UNDERCLAY	1.8	55.2	

MAPID: 05786590000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 32 QUARTERS/FOOTAGES: 660' N line, 1' E line of SE SE

QUADRANGLE: IPAVA LONGITUDE: -90.295808 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.276959 DATE COLLECTED: 11 / 17 / 1960

SURFACE ELEVATION (FT.): 615.2 LOGGED (FT.): 94.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE W42 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
615.2	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
604.2	PLEISTOCENE		CLAY	20.0	11.0	
584.2	PLEISTOCENE		CLAY	26.0	31.0	
558.2	CARBONDALE		SANDY SHALE	33.0	57.0	
525.2	CARBONDALE	COLCHESTER	COAL	2.3	90.0	GOOD
522.9	CARBONDALE		UNDERCLAY	1.8	92.3	

MAPID: 05786907000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 32 QUARTERS/FOOTAGES: 0' S line, 660' W line of SE SE

QUADRANGLE: IPAVA LONGITUDE: -90.298199 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.275226 DATE COLLECTED: 11 / 17 / 1960

SURFACE ELEVATION (FT.): 609.5 LOGGED (FT.): 89.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE W66 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
609.5	PLEISTOCENE		CLAY	10.0	0.0	
599.5	PLEISTOCENE		CLAY	10.0	10.0	
589.5	PLEISTOCENE		CLAY	40.0	20.0	
549.5	CARBONDALE		SHALE	25.0	60.0	SOFT
524.5	CARBONDALE	COLCHESTER	COAL	2.1	85.0	GOOD
522.4	CARBONDALE		UNDERCLAY	1.9	87.1	

MAPID: 05786908000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 32 QUARTERS/FOOTAGES: 660' N line, 0' E line of SW NE

QUADRANGLE: IPAVA LONGITUDE: -90.300421 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.28429 DATE COLLECTED: 11 / 22 / 1960

SURFACE ELEVATION (FT.): 569.6 LOGGED (FT.): 34.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE W138 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
569.6	PLEISTOCENE		CLAY	3.0	0.0	
566.6	PLEISTOCENE		CLAY	5.0	3.0	
561.6	CARBONDALE		SHALE	15.0	8.0	SOFT
546.6	CARBONDALE		SHALE	7.0	23.0	HARD
539.6	CARBONDALE	COLCHESTER	COAL	2.1	30.0	HARD, GOOD
537.5	CARBONDALE		UNDERCLAY	1.9	32.1	

MAPID: 05786910000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 32 QUARTERS/FOOTAGES: 660' S line, 660' W line of SE NE

QUADRANGLE: IPAVA LONGITUDE: -90.298054 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.284287 DATE COLLECTED: 11 / 22 / 1960

SURFACE ELEVATION (FT.): 585.3 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE W141 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.3	PLEISTOCENE		CLAY	3.0	0.0	
582.3	PLEISTOCENE		CLAY	6.0	3.0	
576.3	PLEISTOCENE		CLAY	14.0	9.0	
562.3	CARBONDALE		SANDY SHALE	33.0	23.0	DARK SOFT
529.3	CARBONDALE		SANDY SHALE	12.0	56.0	DARK
517.3	CARBONDALE	COLCHESTER	COAL	2.5	68.0	GOOD
514.8	CARBONDALE		UNDERCLAY	1.5	70.5	

MAPID: 05786909000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 33 QUARTERS/FOOTAGES: NW SE

QUADRANGLE: IPAVA LONGITUDE: -90.284651 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.280587 DATE COLLECTED: 6 / 5 / 1961

SURFACE ELEVATION (FT.): 611.9 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE W123 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
611.9	PLEISTOCENE		CLAY	21.0	0.0	
590.9	PLEISTOCENE		CLAY	5.0	21.0	
585.9	PLEISTOCENE		CLAY	4.0	26.0	
581.9	CARBONDALE		DARK SHALE	3.0	30.0	
578.9	CARBONDALE		SHALE	55.0	33.0	LAMINATED
523.9	CARBONDALE		SANDSTONE	14.0	88.0	SOFT
509.9	CARBONDALE		SHALE	2.5	102.0	
507.4	CARBONDALE	COLCHESTER	COAL	2.3	104.5	GOOD
505.1	CARBONDALE		UNDERCLAY	1.2	106.8	

MAPID: 05786484000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 34 QUARTERS/FOOTAGES: 1' S line, 1' W line of NW NW

QUADRANGLE: IPAVA LONGITUDE: -90.277737 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.286036 DATE COLLECTED: 12 / 5 / 1960

SURFACE ELEVATION (FT.): 605.4 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE KK151 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
605.4	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0	
590.4	PLEISTOCENE		CLAY	3.0	15.0	
587.4	PLEISTOCENE		CLAY	7.0	18.0	
580.4	CARBONDALE		SHALE	20.0	25.0	SOFT
560.4	CARBONDALE		SHALE	41.0	45.0	HARD
519.4	CARBONDALE	COLCHESTER	COAL	2.3	86.0	HARD, GOOD
517.1	CARBONDALE		UNDERCLAY	1.8	88.3	

MAPID: 05786481000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 35 QUARTERS/FOOTAGES: 1' S line, 660' E line of SW SW
 QUADRANGLE: IPAVA LONGITUDE: -90.254842 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.275143 DATE COLLECTED: 1 / 16 / 1961
 SURFACE ELEVATION (FT.): 631.9 LOGGED (FT.): 120.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE KK10 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
631.9	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
622.9	PLEISTOCENE		CLAY	6.0	9.0	
616.9	PLEISTOCENE		CLAY	20.0	15.0	
596.9	CARBONDALE		SANDY SHALE	81.0	35.0	
515.9	CARBONDALE	COLCHESTER	COAL	2.2	116.0	GOOD
513.7	CARBONDALE		UNDERCLAY	1.8	118.2	

MAPID: 05786767000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 35 QUARTERS/FOOTAGES: SW SW
 QUADRANGLE: IPAVA LONGITUDE: -90.254663 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.276949 DATE COLLECTED: 1 / 16 / 1961
 SURFACE ELEVATION (FT.): 602.7 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE KK61 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
602.7	PLEISTOCENE		CLAY	10.0	0.0	
592.7	PLEISTOCENE		CLAY	5.0	10.0	
587.7	PLEISTOCENE		CLAY	10.0	15.0	
577.7	CARBONDALE		SHALE	20.0	25.0	
557.7	CARBONDALE		SANDY SHALE	31.0	45.0	HARD
526.7	CARBONDALE	COLCHESTER	COAL	2.1	76.0	GOOD
524.6	CARBONDALE		UNDERCLAY	1.9	78.1	

MAPID: 05786769000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 35 QUARTERS/FOOTAGES: NW SE

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.245743 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.280675 DATE COLLECTED: 4 / 19 / 1961

SURFACE ELEVATION (FT.): 608.5 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE KK115 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
608.5	PLEISTOCENE		CLAY	32.0	0.0	
576.5	PLEISTOCENE		SANDY SHALE	39.0	32.0	
537.5	CARBONDALE		DARK SHALE	7.0	71.0	
530.5	CARBONDALE	COLCHESTER	COAL	2.0	78.0	GOOD
528.5	CARBONDALE		UNDERCLAY	1.0	80.0	

MAPID: 05786483000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 36 QUARTERS/FOOTAGES: 1' S line, 1' E line of SW SW

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.234285 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.275161 DATE COLLECTED: 5 / 15 / 1961

SURFACE ELEVATION (FT.): 609.6 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE KK19 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
609.6	PLEISTOCENE		UNCONSOLIDATED	13.0	0.0	
596.6	PLEISTOCENE		CLAY	10.0	13.0	
586.6	PLEISTOCENE		CLAY	12.0	23.0	
574.6	CARBONDALE		GRAY SHALE	15.0	35.0	
559.6	CARBONDALE		SANDSTONE	7.0	50.0	
552.6	CARBONDALE		SANDY SHALE	30.0	57.0	
522.6	CARBONDALE		SANDSTONE	6.0	87.0	
516.6	CARBONDALE	COLCHESTER	COAL	2.1	93.0	GOOD; TOP POSSIBLY ERODED
514.5	CARBONDALE		UNDERCLAY	1.9	95.1	

MAPID: 05786768000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 36 QUARTERS/FOOTAGES: SW SW

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.236393 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.276983 DATE COLLECTED: 5 / 15 / 1961

SURFACE ELEVATION (FT.): 611.4 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE KK69 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
611.4	PLEISTOCENE		UNCONSOLIDATED	35.0	0.0	
576.4	CARBONDALE		GRAY SHALE	3.0	35.0	
573.4	CARBONDALE		SANDSTONE/SHALE	42.7	38.0	
530.7	CARBONDALE		GRAY SHALE	6.2	80.7	
524.6	CARBONDALE	COLCHESTER	COAL	1.9	86.8	GOOD
522.6	CARBONDALE		UNDERCLAY	1.3	88.8	

MAPID: 05786770000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 36 QUARTERS/FOOTAGES: NW SE

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.226472 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.280549 DATE COLLECTED: 5 / 12 / 1961

SURFACE ELEVATION (FT.): 593.4 LOGGED (FT.): 83.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE KK123 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
593.4	PLEISTOCENE		CLAY	20.0	0.0	
573.4	PLEISTOCENE		CLAY	15.0	20.0	
558.4	CARBONDALE		GRAY SHALE	21.0	35.0	HARD
537.4	CARBONDALE		COAL	0.3	56.0	
537.1	CARBONDALE		SANDY SHALE	3.7	56.3	
533.4	CARBONDALE		SANDSTONE	6.3	60.0	HARD
527.1	CARBONDALE		SANDY SHALE	13.0	66.3	HARD
514.1	CARBONDALE	COLCHESTER	RASH	0.2	79.3	
513.9	CARBONDALE	COLCHESTER	COAL	2.3	79.5	GOOD
511.6	CARBONDALE		UNDERCLAY	1.3	81.8	

MAPID: 05786771000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 4N 2E SECTION: 36 QUARTERS/FOOTAGES: 660' S line, 0' E line of SE NW

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.228795 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.284186 DATE COLLECTED: 4 / 17 / 1961

SURFACE ELEVATION (FT.): 606.8 LOGGED (FT.): 82.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE KK144 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
606.8	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
598.8	PLEISTOCENE		CLAY	38.0	8.0	
560.8	PLEISTOCENE		CLAY	32.0	46.0	WITH DRIFTWOOD
528.8	CARBONDALE	COLCHESTER	COAL	2.3	78.0	GOOD; TOP ERODED
526.5	CARBONDALE		UNDERCLAY	1.8	80.3	

MAPID: 05786982000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 2 QUARTERS/FOOTAGES: 660' S line, 0' E line of NW SE

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.129213 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.355247 DATE COLLECTED: 3 / 28 / 1961

SURFACE ELEVATION (FT.): 550.1 LOGGED (FT.): 93.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE AC488 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.1	PLEISTOCENE		CLAY	13.0	0.0	
537.1	PLEISTOCENE		CLAY	16.0	13.0	
521.1	PLEISTOCENE		CLAY	45.0	29.0	
476.1	CARBONDALE		DARK SHALE	15.0	74.0	
461.1	CARBONDALE	COLCHESTER	COAL	2.5	89.0	GOOD
458.6	CARBONDALE		UNDERCLAY	1.5	91.5	

MAPID: 05786984000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 2 QUARTERS/FOOTAGES: 0' N line, 660' E line of NW NW

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.141033 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.364224 DATE COLLECTED: 3 / 15 / 1961

SURFACE ELEVATION (FT.): 570.2 LOGGED (FT.): 91.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE AC560 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.2	PLEISTOCENE		CLAY	15.0	0.0	
555.2	PLEISTOCENE		CLAY	5.0	15.0	
550.2	PLEISTOCENE		CLAY	20.0	20.0	
530.2	CARBONDALE		SHALE	20.0	40.0	SOFT
510.2	CARBONDALE		SHALE	27.0	60.0	HARD
483.2	CARBONDALE	COLCHESTER	COAL	2.4	87.0	
480.8	CARBONDALE		UNDERCLAY	1.6	89.4	

MAPID: 05786985000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 2 QUARTERS/FOOTAGES: 0' N line, 660' W line of NE NE

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.126813 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.364239 DATE COLLECTED: 3 / 27 / 1961

SURFACE ELEVATION (FT.): 552.4 LOGGED (FT.): 82.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE AC566 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
552.4	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
543.4	PLEISTOCENE		CLAY	15.0	9.0	
528.4	PLEISTOCENE		CLAY	31.0	24.0	
497.4	CARBONDALE		SANDY SHALE	23.0	55.0	
474.4	CARBONDALE	COLCHESTER	COAL	2.4	78.0	GOOD
472.0	CARBONDALE		UNDERCLAY	1.6	80.4	

MAPID: 05786983000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 3 QUARTERS/FOOTAGES: NW NW

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.159777 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.362378 DATE COLLECTED: 7 / 12 / 1961

SURFACE ELEVATION (FT.): 562.3 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE AC551 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
562.3	PLEISTOCENE		CLAY	23.0	0.0	
539.3	PLEISTOCENE		CLAY	10.0	23.0	
529.3	PLEISTOCENE		SAND & GRAVEL	31.0	33.0	
498.3	CARBONDALE		GRAY SANDSTONE	21.1	64.0	
477.2	CARBONDALE	COLCHESTER	COAL	2.4	85.1	GOOD
474.8	CARBONDALE		UNDERCLAY	2.5	87.5	

MAPID: 05786755000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 6 QUARTERS/FOOTAGES: 0' N line, 0' W line of NW SW

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.218026 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.356946 DATE COLLECTED: 9 / 8 / 1961

SURFACE ELEVATION (FT.): 522.6 LOGGED (FT.): 84.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE LL501 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
522.6	PLEISTOCENE		CLAY	8.0	0.0	
514.6	PLEISTOCENE		CLAY	17.0	8.0	
497.6	PLEISTOCENE		CLAY	49.0	25.0	
448.6	CARBONDALE		SHALE	8.0	74.0	SOFT
440.6	CARBONDALE	COLCHESTER	COAL	1.0	82.0	FIAR
439.6	CARBONDALE		UNDERCLAY	1.0	83.0	

MAPID: 05786518000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 7 QUARTERS/FOOTAGES: 660' S line, 610' E line of SW SW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.215964 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.336379 DATE COLLECTED: 10 / 25 / 1965
 SURFACE ELEVATION (FT.): 562.6 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE LL227 WELL TYPE: Coal Test
 COMMENT: W. DUNCAN MILLS BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
562.6	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
551.6	PLEISTOCENE		CLAY	8.0	11.0	
543.6	PLEISTOCENE		CLAY	11.0	19.0	
532.6	CARBONDALE		SANDY SHALE	30.0	30.0	
502.6	CARBONDALE		GRAY SHALE	1.0	60.0	
501.6	CARBONDALE	COLCHESTER	COAL	2.3	61.0	GOOD
499.3	CARBONDALE		UNDERCLAY	1.8	63.3	

MAPID: 05786754000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 7 QUARTERS/FOOTAGES: 660' S line, 0' W line of SW NW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.218245 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.343968 DATE COLLECTED: 9 / 7 / 1965
 SURFACE ELEVATION (FT.): 569.3 LOGGED (FT.): 89.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE LL326 WELL TYPE: Coal Test
 COMMENT: W. DUNCAN MILLS BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
569.3	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
562.3	PLEISTOCENE		CLAY	14.0	7.0	
548.3	PLEISTOCENE		CLAY	48.0	21.0	
500.3	CARBONDALE		SANDY SHALE	16.0	69.0	HARD
484.3	CARBONDALE	COLCHESTER	COAL	2.7	85.0	GOOD
481.6	CARBONDALE		UNDERCLAY	1.3	87.7	

MAPID: 05786519000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 9 QUARTERS/FOOTAGES: 610' S line, 20' W line of SW SW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.180865 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.335443 DATE COLLECTED: 4 / 4 / 1961
 SURFACE ELEVATION (FT.): 562.8 LOGGED (FT.): 64.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE LL242 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
562.8	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
554.8	PLEISTOCENE		CLAY	20.0	8.0	
534.8	PLEISTOCENE		CLAY	14.0	28.0	
520.8	CARBONDALE		SANDY SHALE	18.0	42.0	
502.8	CARBONDALE	COLCHESTER	COAL	2.2	60.0	
500.6	CARBONDALE		UNDERCLAY	1.8	62.2	

MAPID: 05786756000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 9 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.181131 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.345684 DATE COLLECTED: 11 / 7 / 1961
 SURFACE ELEVATION (FT.): 455.0 LOGGED (FT.): 89.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE LL367 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
455.0	PLEISTOCENE		CLAY	7.0	0.0	
448.0	PLEISTOCENE		CLAY	10.0	7.0	
438.0	PLEISTOCENE		SAND	16.0	17.0	
422.0			ROCK	7.0	33.0	
415.0			SHALE	5.0	40.0	HARD
410.0				1.0	45.0	
409.0			SHALE	8.0	46.0	
401.0			COAL	1.0	54.0	
400.0			SHALE	16.0	55.0	VERY HARD
384.0			LIMESTONE	18.0	71.0	VERY HARD

MAPID: 05700013000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 12 QUARTERS/FOOTAGES: NW SE

QUADRANGLE: HAVANA LONGITUDE: -90.112774 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.34064 DATE COLLECTED: 4 / 22 / 1915

SURFACE ELEVATION (FT.): 444.0 LOGGED (FT.): 67.6 LOG TYPE: Drillers Log

SOURCE: SCRIPPS, WM. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
444.0			UNCONSOLIDATED	24.5	0.0	
419.5	SPOON		SHALE	5.5	24.5	
414.0	SPOON	DELONG	COAL WITH SHALE	4.7	30.0	3.33-FT SH PTG
409.3	SPOON		UNDERCLAY	4.0	34.7	
405.3	SPOON		SHALE	10.3	38.7	
395.1	SPOON	HERMON	COAL	0.3	48.9	
394.8	SPOON		SHALE	0.7	49.2	
394.2	SPOON	SEVILLE	LIMESTONE	10.5	49.8	
383.7	SPOON		SHALE	0.8	60.3	DARK
382.9	SPOON	ROCK ISLAND	COAL	3.3	61.1	
379.6	SPOON		SHALE	1.6	64.4	BIT
378.0	SPOON		UNDERCLAY	1.0	66.0	SDY

MAPID: 05700015000C VERSION: 1

PROJECT: NCRDS87

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 12 QUARTERS/FOOTAGES: SW NE

QUADRANGLE: HAVANA LONGITUDE: -90.112763 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 40.344301 DATE COLLECTED: 4 / 0 / 1915

SURFACE ELEVATION (FT.): 449.0 LOGGED (FT.): 88.2 LOG TYPE: Drillers Log

SOURCE: WM. SCRIPPS WELL TYPE: Coal Test

COMMENT: LOCATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
449.0			UNCONSOLIDATED	16.5	0.0	
432.5	CARBONDALE		SHALE	6.6	16.5	
425.9	CARBONDALE	COLCHESTER	COAL	1.2	23.1	
424.7	CARBONDALE		DARK SHALE	1.5	24.3	
423.2	CARBONDALE	COLCHESTER	COAL	0.5	25.8	
422.7	SPOON		DARK SHALE	0.7	26.3	
422.1	SPOON		UNCLASSIFIED	3.1	26.9	
419.0	SPOON	ABINGDON	COAL	1.3	30.0	UNCERTAIN CORRELATION
417.7	SPOON		UNDERCLAY	5.2	31.3	
412.5	SPOON		UNCLASSIFIED	2.5	36.5	
410.0	SPOON		SHALE	20.8	39.0	
389.2	SPOON		UNCLASSIFIED	29.2	59.8	

MAPID: 05786515000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 16 QUARTERS/FOOTAGES: 660' S line, 660' E line of SW SW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.178617 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.320842 DATE COLLECTED: 11 / 7 / 1961
 SURFACE ELEVATION (FT.): 562.1 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE LL43 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
562.1	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
553.1	PLEISTOCENE		CLAY	19.0	9.0	
534.1	PLEISTOCENE		CLAY	40.0	28.0	
494.1	CARBONDALE		SHALE	6.0	68.0	SOFT
488.1	CARBONDALE	COLCHESTER	COAL	2.3	74.0	FAIR, WILL LOAD
485.8	CARBONDALE		UNDERCLAY	1.7	76.3	

MAPID: 05786736000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 16 QUARTERS/FOOTAGES: 0' S line, 0' W line of SW SW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.181011 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.319012 DATE COLLECTED: 11 / 6 / 1961
 SURFACE ELEVATION (FT.): 571.7 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE JJ617 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
571.7	PLEISTOCENE		CLAY	17.0	0.0	
554.7	PLEISTOCENE		CLAY	21.0	17.0	
533.7	PLEISTOCENE		CLAY	35.0	38.0	
498.7	CARBONDALE		SHALE	13.0	73.0	HARD
485.7	CARBONDALE		SHALE	8.0	86.0	SOFT
477.7	CARBONDALE	COLCHESTER	COAL	2.5	94.0	GOOD
475.2	CARBONDALE		UNDERCLAY	1.5	96.5	

MAPID: 05786748000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 16 QUARTERS/FOOTAGES: 0' S line, 660' W line of NW SE
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.169098 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.32296 DATE COLLECTED: 11 / 3 / 1961
 SURFACE ELEVATION (FT.): 567.2 LOGGED (FT.): 99.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE LL72 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
567.2	PLEISTOCENE		CLAY	13.0	0.0	
554.2	PLEISTOCENE		CLAY	22.0	13.0	
532.2	PLEISTOCENE		CLAY	43.0	35.0	
489.2	CARBONDALE		DARK SHALE	17.0	78.0	HARD
472.2	CARBONDALE	COLCHESTER	COAL	2.0	95.0	GOOD
470.2	CARBONDALE		UNDERCLAY	2.0	97.0	

MAPID: 05786752000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 16 QUARTERS/FOOTAGES: 660' N line, 0' W line of SW NE
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.171491 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.328802 DATE COLLECTED: 8 / 3 / 1961
 SURFACE ELEVATION (FT.): 567.0 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE LL146 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
567.0	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
558.0	PLEISTOCENE		CLAY	24.0	9.0	
534.0	PLEISTOCENE		CLAY	15.0	33.0	
519.0	CARBONDALE		SANDY SHALE	38.0	48.0	HARD
481.0	CARBONDALE	COLCHESTER	COAL	2.3	86.0	GOOD
478.7	CARBONDALE		UNDERCLAY	1.7	88.3	

MAPID: 05701779000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 17 QUARTERS/FOOTAGES: SW NW

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.197539

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.32831

DATE COLLECTED: 2 / 4 / 1957

SURFACE ELEVATION (FT.): 573.0 LOGGED (FT.): 59.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
573.0			UNCONSOLIDATED	32.0	0.0	
541.0	CARBONDALE	PURINGTON	SHALE	7.6	32.0	
533.4	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.4	39.6	
532.0	CARBONDALE	FRANCIS CREEK	SHALE	16.0	41.0	
516.0	CARBONDALE	COLCHESTER	COAL	2.4	57.0	BASE OF CARBONDALE
513.6	SPOON		UNDERCLAY	0.5	59.4	

MAPID: 05701781000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 17 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SW

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.200018

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.322762

DATE COLLECTED: 2 / 6 / 1957

SURFACE ELEVATION (FT.): 578.0 LOGGED (FT.): 78.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
578.0			UNCONSOLIDATED	35.3	0.0	
542.7	CARBONDALE	PURINGTON	SHALE	4.7	35.3	
538.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.6	40.0	
537.4	CARBONDALE	FRANCIS CREEK	SHALE	35.0	40.6	
502.4	CARBONDALE	COLCHESTER	COAL	2.4	75.6	BASE OF CARBONDALE
500.0	SPOON		UNDERCLAY	0.5	78.0	

MAPID: 05786517000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 17 QUARTERS/FOOTAGES: 1' S line, 1' E line of SW NE
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.185709 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.326408 DATE COLLECTED: 4 / 3 / 1961
 SURFACE ELEVATION (FT.): 576.2 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE LL115 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
576.2	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
567.2	PLEISTOCENE		CLAY	30.0	9.0	
537.2	PLEISTOCENE		CLAY	6.0	39.0	
531.2	CARBONDALE		SANDY SHALE	36.0	45.0	
495.2	CARBONDALE	COLCHESTER	COAL	2.4	81.0	GOOD
492.8	CARBONDALE		UNDERCLAY	1.6	83.4	

MAPID: 05786750000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 17 QUARTERS/FOOTAGES: 0' N line, 0' W line of NW SW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.199944 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.326469 DATE COLLECTED: 7 / 11 / 1961
 SURFACE ELEVATION (FT.): 574.8 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE LL109 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
574.8	PLEISTOCENE		UNCONSOLIDATED	28.0	0.0	
546.8	PLEISTOCENE		CLAY	32.0	28.0	
514.8	CARBONDALE		GRAY SHALE	3.0	60.0	
511.8	CARBONDALE	COLCHESTER	COAL	2.3	63.0	
509.5	CARBONDALE		UNDERCLAY	2.8	65.3	

MAPID: 05786753000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 17 QUARTERS/FOOTAGES: 0' S line, 0' W line of NE NE

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.185666 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.330095 DATE COLLECTED: 4 / 3 / 1961

SURFACE ELEVATION (FT.): 570.4 LOGGED (FT.): 71.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE LL165 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.4	PLEISTOCENE		CLAY	15.0	0.0	
555.4	PLEISTOCENE		CLAY	10.0	15.0	
545.4	PLEISTOCENE		CLAY	10.0	25.0	
535.4	CARBONDALE		SHALE	20.0	35.0	HARD
515.4	CARBONDALE		SHALE	12.0	55.0	SOFT
503.4	CARBONDALE	COLCHESTER	COAL	2.3	67.0	GOOD
501.1	CARBONDALE		UNDERCLAY	1.7	69.3	

MAPID: 05786514000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 18 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SE

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.209439 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.319238 DATE COLLECTED: 9 / 17 / 1965

SURFACE ELEVATION (FT.): 578.5 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE LL5 WELL TYPE: Coal Test

COMMENT: W. DUNCAN MILLS BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
578.5	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
571.5	PLEISTOCENE		CLAY	27.0	7.0	
544.5	PLEISTOCENE		CLAY	46.0	34.0	
498.5	CARBONDALE		GRAY SHALE	2.0	80.0	
496.5	CARBONDALE	COLCHESTER	BLACK SHALE & COAL	0.5	82.0	HARD
496.0	CARBONDALE		SHALE	5.5	82.5	HARD

MAPID: 05786516000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 18 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW NW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.218633 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.327039 DATE COLLECTED: 7 / 17 / 1961
 SURFACE ELEVATION (FT.): 563.0 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE LL101 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
563.0	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0	
551.0	PLEISTOCENE		CLAY & GRAVEL	13.0	12.0	
538.0	PLEISTOCENE		CLAY	41.7	25.0	
496.3	CARBONDALE	COLCHESTER	COAL	2.5	66.7	GOOD: TOP ERODED
493.8	CARBONDALE		UNDERCLAY	2.8	69.2	

MAPID: 05786747000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 18 QUARTERS/FOOTAGES: 0' S line, 660' E line of NE SW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.211745 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.323054 DATE COLLECTED: 9 / 15 / 1965
 SURFACE ELEVATION (FT.): 571.9 LOGGED (FT.): 69.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE LL54 WELL TYPE: Coal Test
 COMMENT: W. DUNCAN MILLS BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
571.9	PLEISTOCENE		CLAY	17.0	0.0	
554.9	PLEISTOCENE		CLAY	16.0	17.0	
538.9	PLEISTOCENE		SAND & GRAVEL	32.0	33.0	
506.9	CARBONDALE		SHALE	2.0	65.0	SOFT
504.9	CARBONDALE	COLCHESTER	COAL	1.0	67.0	SOFT
503.9	CARBONDALE		UNDERCLAY	1.0	68.0	

MAPID: 05786751000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 18 QUARTERS/FOOTAGES: 660' N line, 660' E line of SW NE
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.206956 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.32861 DATE COLLECTED: 5 / 13 / 1965
 SURFACE ELEVATION (FT.): 562.4 LOGGED (FT.): 52.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE LL131 WELL TYPE: Coal Test
 COMMENT: SW DUNCAN MILLS BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
562.4	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
555.4	PLEISTOCENE		CLAY	21.0	7.0	
534.4	CARBONDALE		SHALE	20.0	28.0	
514.4	CARBONDALE	COLCHESTER	COAL	2.1	48.0	
512.3	CARBONDALE		UNDERCLAY	1.9	50.1	

MAPID: 05701780000C VERSION: 1

PROJECT: AVAIL

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 20 QUARTERS/FOOTAGES: SW NW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.197813 GEOLOGIST: UITEMP
 CONFIDENTIAL: N LATITUDE: 40.313559 DATE COLLECTED: 0 / 0 / 1957
 SURFACE ELEVATION (FT.): 562.0 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log
 SOURCE: MIDLAND COAL CO. 2 WELL TYPE:
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
562.0	PLEISTOCENE		SOIL	1.0	0.0	
561.0	PLEISTOCENE		CLAY	20.7	1.0	YELLOW
540.3	PLEISTOCENE		SANDY CLAY	17.0	21.7	YELLOW
523.3	PLEISTOCENE		BOULDER	0.5	38.7	CALC BLDR
522.8	PLEISTOCENE		SANDY CLAY	14.8	39.2	YELLOW
508.0	PLEISTOCENE		SANDY CLAY	21.0	54.0	GRAY

MAPID: 05701126000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 21 QUARTERS/FOOTAGES: 2200' S line, 2500' E line
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.171209 GEOLOGIST: MCCRACKEN
 CONFIDENTIAL: N LATITUDE: 40.310478 DATE COLLECTED: 10 / 24 / 1958
 SURFACE ELEVATION (FT.): 565.0 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log
 SOURCE: DONAN CE-2 WELL TYPE: Coal Test
 COMMENT: ELEV +/- 5'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
565.0	PLEISTOCENE		LOESS	24.0	0.0	
541.0	PLEISTOCENE		UNCONSOLIDATED	26.0	24.0	
515.0	PLEISTOCENE		SAND	10.0	50.0	

MAPID: 05701126000C VERSION: 2

PROJECT: AVAIL

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 21 QUARTERS/FOOTAGES: 2200' S line, 2500' E line
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.171209 GEOLOGIST: UITEMP
 CONFIDENTIAL: N LATITUDE: 40.310478 DATE COLLECTED: 0 / 0 / 1958
 SURFACE ELEVATION (FT.): LOGGED (FT.): 60.0 LOG TYPE: Drillers Log
 SOURCE: DONAN CE-2 WELL TYPE:
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
-	PLEISTOCENE		SILTY CLAY	24.0	0.0	BROWN
-	PLEISTOCENE		SANDY CLAY	26.0	24.0	GREEN
-	PLEISTOCENE		SAND	10.0	50.0	GRAY

MAPID: 05786530000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 29 QUARTERS/FOOTAGES: 660' S line, 660' E line of SE NW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.193222 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.298878 DATE COLLECTED: 6 / 2 / 1961
 SURFACE ELEVATION (FT.): 545.0 LOGGED (FT.): 62.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE JJ337 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
545.0	PLEISTOCENE		UNCONSOLIDATED	23.0	0.0	
522.0	CARBONDALE		SANDSTONE	8.0	23.0	
514.0	CARBONDALE		SANDY SHALE	22.0	31.0	
492.0	CARBONDALE		SHALE	5.0	53.0	SOFT, BLUE
487.0	CARBONDALE	COLCHESTER	COAL	2.2	58.0	GOOD
484.8	CARBONDALE		UNDERCLAY	1.8	60.2	

MAPID: 05786733000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 660' W line of SE NW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.193244 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.297056 DATE COLLECTED: 6 / 2 / 1961
 SURFACE ELEVATION (FT.): 489.0 LOGGED (FT.): 42.3 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE JJ312 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
489.0	PLEISTOCENE		UNCONSOLIDATED	19.0	0.0	WITH COAL TRACE
470.0	TRADEWATER		SANDY SHALE	11.0	19.0	
459.0	TRADEWATER		SANDSTONE	2.0	30.0	
457.0	TRADEWATER		DARK SHALE	6.0	32.0	
451.0	TRADEWATER	ROCK ISLAND	COAL	0.5	38.0	SOFT
450.5	TRADEWATER		DARK SHALE	3.5	38.5	
447.0	TRADEWATER		LIMESTONE	0.3	42.0	

MAPID: 05786735000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 29 QUARTERS/FOOTAGES: 0' N line, 660' E line of NW NW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.197981 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.304407 DATE COLLECTED: 12 / 20 / 1960
 SURFACE ELEVATION (FT.): 581.3 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE JJ410 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
581.3	PLEISTOCENE		CLAY	15.0	0.0	
566.3	PLEISTOCENE		CLAY	10.0	15.0	
556.3	PLEISTOCENE		CLAY	15.0	25.0	
541.3	CARBONDALE		SHALE	15.0	40.0	SOFT
526.3	CARBONDALE		SHALE	19.0	55.0	HARD
507.3	CARBONDALE	COLCHESTER	COAL	2.3	74.0	HARD, GOOD
505.0	CARBONDALE		UNDERCLAY	1.7	76.3	

MAPID: 05786529000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 30 QUARTERS/FOOTAGES: 1' S line, 660' E line of SW SW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.216927 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.289953 DATE COLLECTED: 12 / 15 / 1960
 SURFACE ELEVATION (FT.): 590.9 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE JJ202 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
590.9	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
584.9	PLEISTOCENE		CLAY	7.0	6.0	
577.9	PLEISTOCENE		CLAY	25.0	13.0	
552.9	CARBONDALE		SANDY SHALE	44.0	38.0	DARK
508.9	CARBONDALE	COLCHESTER	COAL	2.4	82.0	
506.5	CARBONDALE		UNDERCLAY	1.6	84.4	

MAPID: 05786732000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 30 QUARTERS/FOOTAGES: 0' S line, 0' W line of SW SE
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.209835 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.289853 DATE COLLECTED: 12 / 15 / 1960
 SURFACE ELEVATION (FT.): 554.3 LOGGED (FT.): 35.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE JJ205 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
554.3	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
547.3	PLEISTOCENE		SAND & GRAVEL	19.0	7.0	
528.3	CARBONDALE		SHALE	5.0	26.0	SOFT
523.3	CARBONDALE	COLCHESTER	COAL	2.1	31.0	GOOD
521.2	CARBONDALE		UNDERCLAY	1.9	33.1	

MAPID: 05786734000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 30 QUARTERS/FOOTAGES: 660' N line, 0' E line of NE NE

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.200381 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.302591 DATE COLLECTED: 12 / 19 / 1960

SURFACE ELEVATION (FT.): 560.3 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE JJ384 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.3	PLEISTOCENE		CLAY	15.0	0.0	
545.3	PLEISTOCENE		CLAY	10.0	15.0	
535.3	PLEISTOCENE		CLAY	15.0	25.0	
520.3	CARBONDALE		SHALE	20.0	40.0	SOFT
500.3	CARBONDALE		SHALE	8.0	60.0	HARD
492.3	CARBONDALE	COLCHESTER	COAL	2.5	68.0	HARD, GOOD
489.8	CARBONDALE		UNDERCLAY	1.5	70.5	

MAPID: 05786528000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 31 QUARTERS/FOOTAGES: 1' S line, 1' E line of SW SW

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.214746 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.275096 DATE COLLECTED: 8 / 22 / 1961

SURFACE ELEVATION (FT.): 582.3 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE JJ3 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
582.3	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0	
570.3	PLEISTOCENE		CLAY	7.0	12.0	
563.3	PLEISTOCENE		CLAY	13.0	19.0	
550.3	CARBONDALE		SHALE	52.0	32.0	HARD
498.3	CARBONDALE	COLCHESTER	COAL	2.3	84.0	GOOD
496.0	CARBONDALE		UNDERCLAY	1.7	86.3	

MAPID: 05786729000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 31 QUARTERS/FOOTAGES: 660' S line, 620' E line of SE SW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.21225 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.276924 DATE COLLECTED: 8 / 22 / 1961
 SURFACE ELEVATION (FT.): 572.4 LOGGED (FT.): 63.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE JJ29 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
572.4	PLEISTOCENE		CLAY	9.0	0.0	
563.4	PLEISTOCENE		CLAY	9.0	9.0	
554.4	PLEISTOCENE		CLAY	10.0	18.0	
544.4	CARBONDALE		DARK SHALE	31.0	28.0	HARD
513.4	CARBONDALE	COLCHESTER	COAL	2.2	59.0	GOOD
511.2	CARBONDALE		UNDERCLAY	1.8	61.2	

MAPID: 05786730000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 31 QUARTERS/FOOTAGES: 0' N line, 0' W line of SE SE
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.205287 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.278795 DATE COLLECTED: 4 / 25 / 1961
 SURFACE ELEVATION (FT.): 559.2 LOGGED (FT.): 53.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE JJ57 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
559.2	PLEISTOCENE		CLAY	30.0	0.0	
529.2	CARBONDALE		SANDY SHALE	20.0	30.0	
509.2	CARBONDALE	COLCHESTER	COAL	2.2	50.0	GOOD
507.0	CARBONDALE		UNDERCLAY	0.8	52.2	

MAPID: 05786731000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 31 QUARTERS/FOOTAGES: 660' N line, 0' W line of SE NE

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.205205 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.284303 DATE COLLECTED: 4 / 26 / 1961

SURFACE ELEVATION (FT.): 574.2 LOGGED (FT.): 96.3 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE JJ132 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
574.2	PLEISTOCENE		CLAY	33.0	0.0	
541.2	PLEISTOCENE		CLAY	9.0	33.0	
532.2	PLEISTOCENE		GRAVEL	5.0	42.0	
527.2	PLEISTOCENE		CLAY	24.0	47.0	
503.2	CARBONDALE		COAL	2.3	71.0	SOFT; TOP ERODED
500.9	CARBONDALE		SHALE	3.7	73.3	
497.2			SANDSTONE	14.0	77.0	
483.2			SHALE	2.0	91.0	
481.2			COAL	0.3	93.0	BLOSSOM
480.9			SHALE	3.0	93.3	

MAPID: 05701125000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 4N 3E SECTION: 34 QUARTERS/FOOTAGES: NE NW NW

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.158922 GEOLOGIST: MCCRACKEN

CONFIDENTIAL: N LATITUDE: 40.288904 DATE COLLECTED: 10 / 23 / 1958

SURFACE ELEVATION (FT.): 570.0 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: DONAN CE-1 WELL TYPE: Coal Test

COMMENT: ELEV +/- 5'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.0	PLEISTOCENE		LOESS	37.0	0.0	
533.0	PLEISTOCENE		UNCONSOLIDATED	33.0	37.0	

MAPID: 0578668000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 2 QUARTERS/FOOTAGES: 0' S line, 0' W line of SW SE
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.360341 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.437008 DATE COLLECTED: 5 / 18 / 1961
 SURFACE ELEVATION (FT.): 638.5 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE UU413 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
638.5	PLEISTOCENE		UNCONSOLIDATED	26.0	0.0	
612.5	PLEISTOCENE		CLAY	30.0	26.0	
582.5	CARBONDALE		GRAY SHALE	18.5	56.0	
564.0	CARBONDALE	COLCHESTER	COAL	2.0	74.5	GOOD
562.0	CARBONDALE		UNDERCLAY	1.5	76.5	

MAPID: 05786681000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 2 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.36972 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.448016 DATE COLLECTED: 5 / 18 / 1961
 SURFACE ELEVATION (FT.): 619.4 LOGGED (FT.): 118.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE UU559 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
619.4	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
609.4	PLEISTOCENE		CLAY & GRAVEL	15.0	10.0	
594.4	PLEISTOCENE		CLAY	60.0	25.0	
534.4			SANDSTONE	10.0	85.0	
524.4			GRAY SHALE	3.5	95.0	
520.9			COAL	1.0	98.5	
519.9			UNDERCLAY	1.5	99.5	
518.4			SANDSTONE	13.0	101.0	HARD, BERNADETTE?
505.4			COAL	1.0	114.0	
504.4	CARBONDALE		UNDERCLAY	0.5	115.0	
503.9	CARBONDALE		SANDSTONE	2.5	115.5	

MAPID: 0578662000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 6 QUARTERS/FOOTAGES: 100' S line, 200' W line of SW NE
 QUADRANGLE: ADAIR LONGITUDE: -90.437221 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.445136 DATE COLLECTED: 5 / 26 / 1961
 SURFACE ELEVATION (FT.): 620.1 LOGGED (FT.): 53.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE TT505 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.1	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
613.1	PLEISTOCENE		CLAY	27.0	7.0	
586.1	CARBONDALE		GRAY SHALE	13.3	34.0	
572.8	CARBONDALE	COLCHESTER	COAL	2.4	47.3	GOOD
570.4	CARBONDALE		UNDERCLAY	3.3	49.7	

MAPID: 05786621000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 6 QUARTERS/FOOTAGES: 660' S line, 552' W line of SW NW
 QUADRANGLE: ADAIR LONGITUDE: -90.445762 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.446699 DATE COLLECTED: 6 / 27 / 1961
 SURFACE ELEVATION (FT.): 629.7 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE TT527 WELL TYPE: Coal Test
 COMMENT: MARIETTA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.7	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
623.7	PLEISTOCENE		CLAY	27.0	6.0	
596.7	PLEISTOCENE		CLAY	12.3	33.0	
584.4	TRADEWATER	ROCK ISLAND	COAL	0.5	45.3	SOFT; TOP ERODC
583.9	TRADEWATER		GRAY SHALE	2.2	45.8	
581.7	TRADEWATER	ROCK ISLAND	COAL	0.6	48.0	SOFT
581.1	TRADEWATER		UNDERCLAY	4.4	48.6	
576.7	TRADEWATER		GRAY SHALE	15.0	53.0	

MAPID: 05786622000C VERSION: 1

PROJECT: NCRDS92

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 6 QUARTERS/FOOTAGES: 555' N line, 0' W line of NW NW
 QUADRANGLE: ADAIR LONGITUDE: -90.447706 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.450447 DATE COLLECTED: 6 / 28 / 1961
 SURFACE ELEVATION (FT.): 626.4 LOGGED (FT.): 95.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE TT576 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
626.4	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
617.4	PLEISTOCENE		CLAY	53.0	9.0	
564.4	CARBONDALE		SANDY SHALE	13.0	62.0	
551.4	CARBONDALE	COLCHESTER	COAL	1.7	75.0	
549.7	CARBONDALE		UNDERCLAY	2.3	76.7	
547.4	TRADEWATER		GRAY SANDSTONE	3.3	79.0	
544.1	TRADEWATER		GRAY SHALE	1.0	82.3	
543.1	TRADEWATER	ROCK ISLAND	COAL	0.5	83.3	GOOD
542.6	TRADEWATER		SANDY SHALE	11.2	83.8	WHITE

MAPID: 05786674000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 10 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SE
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.375063 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.422616 DATE COLLECTED: 2 / 1 / 1961
 SURFACE ELEVATION (FT.): 644.5 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE UU207 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.5	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
635.5	PLEISTOCENE		CLAY	14.0	9.0	
621.5	PLEISTOCENE		CLAY	21.0	23.0	
600.5	CARBONDALE		BLACK SHALE	2.0	44.0	
598.5	CARBONDALE		SANDY SHALE	38.0	46.0	
560.5	CARBONDALE	COLCHESTER	COAL	2.0	84.0	GOOD
558.5	CARBONDALE		UNDERCLAY	1.0	86.0	

MAPID: 05786677000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 10 QUARTERS/FOOTAGES: 660' S line, 660' W line of SE NE
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.372539 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.431834 DATE COLLECTED: 1 / 26 / 1961
 SURFACE ELEVATION (FT.): 636.3 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE UU333 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
636.3	PLEISTOCENE		CLAY	10.0	0.0	
626.3	PLEISTOCENE		CLAY	10.0	10.0	
616.3	PLEISTOCENE		CLAY	20.0	20.0	
596.3	CARBONDALE		SHALE	26.0	40.0	SOFT
570.3	CARBONDALE	COLCHESTER	COAL	2.1	66.0	GOOD
568.2	CARBONDALE		UNDERCLAY	1.9	68.1	

MAPID: 05786675000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 11 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.365482 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.422429 DATE COLLECTED: 2 / 1 / 1961
 SURFACE ELEVATION (FT.): 650.5 LOGGED (FT.): 105.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE UU211 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.5	PLEISTOCENE		CLAY	15.0	0.0	
635.5	PLEISTOCENE		CLAY	15.0	15.0	
620.5	PLEISTOCENE		CLAY	10.0	30.0	
610.5	CARBONDALE		SHALE	20.0	40.0	SOFT
590.5	CARBONDALE		BLACK SHALE	2.0	60.0	
588.5	CARBONDALE		GRAY SHALE	39.0	62.0	
549.5	CARBONDALE	COLCHESTER	COAL	2.2	101.0	GOOD
547.3	CARBONDALE		UNDERCLAY	1.8	103.2	

MAPID: 05786678000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 11 QUARTERS/FOOTAGES: 495' N line, 82' W line of SE NE
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.355429 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.431749 DATE COLLECTED: 8 / 8 / 1973
 SURFACE ELEVATION (FT.): 626.7 LOGGED (FT.): 104.0 LOG TYPE: Drillers Log
 SOURCE: AMAX UU340JC WELL TYPE: Coal Test
 COMMENT: IPAVA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
626.7	PLEISTOCENE		SILT	4.0	0.0
622.7	PLEISTOCENE		CLAY	23.0	4.0
599.7	PLEISTOCENE		UNCONSOLIDATED	11.0	27.0
588.7	CARBONDALE		GRAY SHALE	62.0	38.0
526.7	CARBONDALE	COLCHESTER	COAL	2.3	100.0
524.4	CARBONDALE		UNDERCLAY	1.8	102.3

MAPID: 05786676000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 12 QUARTERS/FOOTAGES: 660' S line, 660' E line of SW SW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.348684 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.423729 DATE COLLECTED: 2 / 28 / 1961
 SURFACE ELEVATION (FT.): 629.4 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE UU243 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
629.4	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0
618.4	PLEISTOCENE		CLAY	12.0	11.0
606.4	PLEISTOCENE		CLAY	15.0	23.0
591.4	CARBONDALE		SHALE	17.0	38.0 SOFT
574.4	CARBONDALE		BLACK SHALE	2.0	55.0
572.4	CARBONDALE		BLACK SHALE	2.0	57.0
570.4	CARBONDALE		SANDY SHALE	35.0	59.0
535.4	CARBONDALE	COLCHESTER	COAL	1.9	94.0 GOOD
533.5	CARBONDALE		UNDERCLAY	1.1	95.9

MAPID: 05786679000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 12 QUARTERS/FOOTAGES: 330' N line, 0' W line of SE NW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.346115 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.431879 DATE COLLECTED: 8 / 7 / 1973
 SURFACE ELEVATION (FT.): 630.8 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log
 SOURCE: AMAX UU344C WELL TYPE: Coal Test
 COMMENT: IPAVA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
630.8	PLEISTOCENE		SILT	3.0	0.0
627.8	PLEISTOCENE		CLAY	7.0	3.0
620.8	PLEISTOCENE		UNCONSOLIDATED	31.0	10.0
589.8	CARBONDALE		GRAY SHALE	53.0	41.0
536.8	CARBONDALE	COLCHESTER	COAL	2.2	94.0
534.6	CARBONDALE		UNDERCLAY	1.8	96.2

MAPID: 05786625000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 13 QUARTERS/FOOTAGES: 660' S line, 660' W line of NW SE
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.339317 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.41259 DATE COLLECTED: 2 / 27 / 1961
 SURFACE ELEVATION (FT.): 605.8 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE UU97 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
605.8	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0
597.8	PLEISTOCENE		CLAY	9.0	8.0
588.8	CARBONDALE		SANDY SHALE	49.0	17.0
539.8	CARBONDALE	COLCHESTER	COAL	2.0	66.0 GOOD
537.8	CARBONDALE		UNDERCLAY	2.0	68.0

MAPID: 05786623000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 14 QUARTERS/FOOTAGES: 0' S line, 1320' E line of SE SE
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.356501 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.407357 DATE COLLECTED: 8 / 22 / 1973
 SURFACE ELEVATION (FT.): 610.9 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE UU15 WELL TYPE: Coal Test
 COMMENT: IPAVA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.9	PLEISTOCENE		SILT	2.0	0.0	
608.9	PLEISTOCENE		CLAY	8.0	2.0	
600.9	CARBONDALE		GRAY SHALE	13.0	10.0	SOFT
587.9	CARBONDALE		GRAY SHALE	52.0	23.0	
535.9	CARBONDALE	COLCHESTER	COAL	1.9	75.0	
534.0	CARBONDALE		UNDERCLAY	1.1	76.9	

MAPID: 05786624000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 14 QUARTERS/FOOTAGES: 660' N line, 0' W line of SW NW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.370429 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.417037 DATE COLLECTED: 8 / 9 / 1973
 SURFACE ELEVATION (FT.): 660.6 LOGGED (FT.): 113.0 LOG TYPE: Drillers Log
 SOURCE: AMAX UU134 WELL TYPE: Coal Test
 COMMENT: IPAVA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.6	PLEISTOCENE		SILT	4.0	0.0	
656.6	PLEISTOCENE		CLAY	19.0	4.0	
637.6	PLEISTOCENE		UNCONSOLIDATED	8.0	23.0	
629.6	CARBONDALE		GRAY SHALE	15.0	31.0	HARD
614.6	CARBONDALE		GRAY SHALE	63.0	46.0	
551.6	CARBONDALE	COLCHESTER	COAL	2.2	109.0	
549.4	CARBONDALE		UNDERCLAY	1.8	111.2	

MAPID: 05786626000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 15 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW SW

QUADRANGLE: ADAIR LONGITUDE: -90.384862 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.415289 DATE COLLECTED: 2 / 21 / 1961

SURFACE ELEVATION (FT.): 675.1 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE UU103 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.1	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
664.1	PLEISTOCENE		CLAY	15.0	11.0	
649.1	PLEISTOCENE		CLAY	12.0	26.0	
637.1	CARBONDALE		SHALE	22.0	38.0	SOFT
615.1	CARBONDALE		BLACK SHALE	2.0	60.0	
613.1	CARBONDALE		SANDY SHALE	42.0	62.0	
571.1	CARBONDALE	COLCHESTER	COAL	2.2	104.0	GOOD
568.9	CARBONDALE		UNDERCLAY	1.8	106.2	

MAPID: 05786627000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 15 QUARTERS/FOOTAGES: 660' S line, 0' W line of SE NE

QUADRANGLE: ADAIR LONGITUDE: -90.37523 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.416994 DATE COLLECTED: 8 / 15 / 1973

SURFACE ELEVATION (FT.): 672.4 LOGGED (FT.): 118.0 LOG TYPE: Drillers Log

SOURCE: AMAX UU132 WELL TYPE: Coal Test

COMMENT: IPAVA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.4	PLEISTOCENE		SILT	3.0	0.0	
669.4	PLEISTOCENE		CLAY	7.0	3.0	
662.4	PLEISTOCENE		UNCONSOLIDATED	57.0	10.0	
605.4	CARBONDALE		GRAY SHALE	47.0	67.0	HARD
558.4	CARBONDALE	COLCHESTER	COAL	2.3	114.0	
556.1	CARBONDALE		UNDERCLAY	1.8	116.3	

MAPID: 05786618000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 16 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE SE
 QUADRANGLE: ADAIR LONGITUDE: -90.389686 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.411677 DATE COLLECTED: 5 / 10 / 1962
 SURFACE ELEVATION (FT.): 674.8 LOGGED (FT.): 101.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE TT75 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.8	PLEISTOCENE		CLAY	13.0	0.0	
661.8	PLEISTOCENE		CLAY	11.0	13.0	
650.8	PLEISTOCENE		CLAY	22.0	24.0	
628.8	CARBONDALE		SHALE	6.0	46.0	SOFT
622.8	CARBONDALE		BLACK SHALE	1.0	52.0	HARD
621.8	CARBONDALE		SHALE	44.0	53.0	HARD
577.8	CARBONDALE	COLCHESTER	COAL	2.2	97.0	GOOD
575.6	CARBONDALE		UNDERCLAY	1.8	99.2	

MAPID: 05786619000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 16 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NE
 QUADRANGLE: ADAIR LONGITUDE: -90.399253 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.419019 DATE COLLECTED: 8 / 17 / 1961
 SURFACE ELEVATION (FT.): 633.9 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE TT171 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.9	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
627.9	PLEISTOCENE		CLAY	11.0	6.0	
616.9	PLEISTOCENE		CLAY	12.0	17.0	
604.9	CARBONDALE		SHALE	27.0	29.0	SOFT
577.9	CARBONDALE	COLCHESTER	COAL	2.4	56.0	GOOD
575.5	CARBONDALE		UNDERCLAY	1.6	58.4	

MAPID: 05786617000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 17 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SE

QUADRANGLE: ADAIR LONGITUDE: -90.41867 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.411705 DATE COLLECTED: 7 / 2 / 1974

SURFACE ELEVATION (FT.): 628.6 LOGGED (FT.): 54.0 LOG TYPE: Drillers Log

SOURCE: AMAX TT63 WELL TYPE: Coal Test

COMMENT: CAMP ELLIS AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
628.6	PLEISTOCENE		UNCONSOLIDATED	16.0	0.0	
612.6	PLEISTOCENE		GRAVEL	6.0	16.0	
606.6	PLEISTOCENE		CLAY	2.0	22.0	
604.6	CARBONDALE		DARK SHALE	9.6	24.0	
595.0	CARBONDALE	COLCHESTER	COAL	2.4	33.6	GOOD
592.6	CARBONDALE		UNDERCLAY	6.0	36.0	
586.6	TRADEWATER		GRAY SHALE	8.0	42.0	
578.6	TRADEWATER	ROCK ISLAND	COAL	0.4	50.0	BLOSSOM
578.2	TRADEWATER		LIMESTONE	3.6	50.4	

MAPID: 05786920000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 20 QUARTERS/FOOTAGES: 40' S line, 322' W line of SW SW

QUADRANGLE: ADAIR LONGITUDE: -90.427323 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.393627 DATE COLLECTED: 1 / 17 / 1979

SURFACE ELEVATION (FT.): 693.7 LOGGED (FT.): 104.0 LOG TYPE: Drillers Log

SOURCE: AMAX RR409BJ WELL TYPE: Coal Test

COMMENT: IPAVA SUNSPOT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.7	PLEISTOCENE		CLAY	26.0	0.0	
667.7	PLEISTOCENE		SAND	20.0	26.0	
647.7	PLEISTOCENE		CLAY	28.0	46.0	
619.7	CARBONDALE		DARK SHALE	25.0	74.0	
594.7	CARBONDALE	COLCHESTER	COAL	2.1	99.0	
592.6	CARBONDALE		UNDERCLAY	2.9	101.1	

MAPID: 05786922000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 20 QUARTERS/FOOTAGES: NW SE

QUADRANGLE: ADAIR LONGITUDE: -90.416437 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.398938 DATE COLLECTED: 5 / 9 / 1962

SURFACE ELEVATION (FT.): 684.3 LOGGED (FT.): 104.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE RR463 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.3	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
673.3	PLEISTOCENE		CLAY	14.0	11.0	
659.3	PLEISTOCENE		CLAY	30.0	25.0	
629.3	CARBONDALE		SHALE	3.0	55.0	HARD
626.3	CARBONDALE		SHALE	42.0	58.0	SOFT
584.3	CARBONDALE	COLCHESTER	COAL	2.3	100.0	GOOD
582.0	CARBONDALE		UNDERCLAY	1.7	102.3	

MAPID: 05786921000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 21 QUARTERS/FOOTAGES: 0' N line, 660' E line of SE SW

QUADRANGLE: ADAIR LONGITUDE: -90.402022 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.397072 DATE COLLECTED: 5 / 10 / 1962

SURFACE ELEVATION (FT.): 674.6 LOGGED (FT.): 99.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE RR420 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.6	PLEISTOCENE		CLAY	12.0	0.0	
662.6	PLEISTOCENE		CLAY	13.0	12.0	
649.6	PLEISTOCENE		CLAY	28.0	25.0	
621.6	CARBONDALE		ROCK	2.0	53.0	HARD
619.6	CARBONDALE		SHALE	40.0	55.0	SOFT
579.6	CARBONDALE	COLCHESTER	COAL	2.2	95.0	GOOD
577.4	CARBONDALE		UNDERCLAY	1.8	97.2	

MAPID: 05786923000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 5N 1E **SECTION:** 21 **QUARTERS/FOOTAGES:** NW SE
QUADRANGLE: ADAIR **LONGITUDE:** -90.397202 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.398875 **DATE COLLECTED:** 5 / 10 / 1962
SURFACE ELEVATION (FT.): 653.8 **LOGGED (FT.):** 85.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE RR521 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.8	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0	
648.8	PLEISTOCENE		CLAY	12.0	5.0	
636.8	PLEISTOCENE		CLAY	59.0	17.0	
577.8	CARBONDALE		SHALE	5.0	76.0	SOFT
572.8	CARBONDALE	COLCHESTER	COAL	2.3	81.0	GOOD
570.5	CARBONDALE		UNDERCLAY	1.7	83.3	

MAPID: 05786924000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 5N 1E **SECTION:** 21 **QUARTERS/FOOTAGES:** NE NE
QUADRANGLE: ADAIR **LONGITUDE:** -90.392192 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.406178 **DATE COLLECTED:** 5 / 10 / 1912
SURFACE ELEVATION (FT.): 665.6 **LOGGED (FT.):** 96.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE RR625 **WELL TYPE:** Coal Test
COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.6	PLEISTOCENE		CLAY	16.0	0.0	
649.6	PLEISTOCENE		CLAY	17.0	16.0	
632.6	PLEISTOCENE		CLAY	26.0	33.0	
606.6	CARBONDALE		SHALE	33.0	59.0	SOFT
573.6	CARBONDALE	COLCHESTER	COAL	2.2	92.0	GOOD
571.4	CARBONDALE		UNDERCLAY	1.8	94.2	

MAPID: 05786503000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 22 QUARTERS/FOOTAGES: 1' S line, 660' E line of SW NW
 QUADRANGLE: ADAIR LONGITUDE: -90.387566 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.400628 DATE COLLECTED: 4 / 25 / 1962
 SURFACE ELEVATION (FT.): 660.2 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE QQ502 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.2	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
651.2	PLEISTOCENE		CLAY	14.0	9.0	
637.2	PLEISTOCENE		CLAY	13.0	23.0	
624.2	CARBONDALE		SHALE	46.0	36.0	SOFT
578.2	CARBONDALE	COLCHESTER	COAL	2.0	82.0	FAIR
576.2	CARBONDALE		UNDERCLAY	2.0	84.0	

MAPID: 05786739000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 22 QUARTERS/FOOTAGES: 495' S line, 10' W line of SW SE
 QUADRANGLE: ADAIR LONGITUDE: -90.380566 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.394488 DATE COLLECTED: 1 / 23 / 1975
 SURFACE ELEVATION (FT.): 655.6 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log
 SOURCE: AMAX QQ405D WELL TYPE: Coal Test
 COMMENT: CAMP ELLIS BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.6	PLEISTOCENE		CLAY	16.0	0.0	
639.6	PLEISTOCENE		SAND	10.3	16.0	
629.3	PLEISTOCENE		UNCONSOLIDATED	2.2	26.3	
627.1	CARBONDALE		GRAY SHALE	47.5	28.5	
579.6	CARBONDALE	COLCHESTER	COAL	2.1	76.0	
577.5	CARBONDALE		UNDERCLAY	1.9	78.1	

MAPID: 05786742000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 22 QUARTERS/FOOTAGES: 660' N line, 660' W line of NW SE
 QUADRANGLE: ADAIR LONGITUDE: -90.378109 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.398604 DATE COLLECTED: 1 / 22 / 1975
 SURFACE ELEVATION (FT.): 665.4 LOGGED (FT.): 99.0 LOG TYPE: Drillers Log
 SOURCE: AMAX QQ481 WELL TYPE: Coal Test
 COMMENT: CAMP ELLIS BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
665.4	PLEISTOCENE		CLAY	24.0	0.0
641.4	PLEISTOCENE		CLAY	18.0	24.0
623.4	CARBONDALE		BLACK SHALE	1.0	42.0
622.4	CARBONDALE		DARK SHALE	44.4	43.0
578.0	CARBONDALE	COLCHESTER	COAL	1.8	87.4
576.2	CARBONDALE		UNDERCLAY	3.8	89.2
572.4	CARBONDALE		GRAY SHALE	6.0	93.0

MAPID: 05786744000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 22 QUARTERS/FOOTAGES: 415' N line, 275' E line of SW NE
 QUADRANGLE: ADAIR LONGITUDE: -90.376623 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.402927 DATE COLLECTED: 10 / 18 / 1977
 SURFACE ELEVATION (FT.): 533.1 LOGGED (FT.): 38.0 LOG TYPE: Drillers Log
 SOURCE: AMAX QQ505HI WELL TYPE: Coal Test
 COMMENT: IPAVA SUNSPOT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
533.1	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0
528.1	PLEISTOCENE		UNCONSOLIDATED	10.0	5.0
518.1	TRADEWATER		GRAY SHALE	8.0	15.0
510.1	TRADEWATER	ROCK ISLAND	COAL	2.1	23.0
508.0	TRADEWATER		UNDERCLAY	1.9	25.1
506.1	TRADEWATER		MICACEOUS SHALE	2.0	27.0
504.1	TRADEWATER		SANDSTONE	9.0	29.0

MAPID: 05760100000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 23 QUARTERS/FOOTAGES: 2508' S line, 2680' W line
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.361297 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.399739 DATE COLLECTED: 7 / 26 / 1955
 SURFACE ELEVATION (FT.): 682.0 LOGGED (FT.): 26.9 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM CS MAP 6-104A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
660.1	CARBONDALE	SPRINGFIELD	COAL	5.0	21.9

MAPID: 05760101000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 5N 1E **SECTION:** 23 **QUARTERS/FOOTAGES:** 2200' N line, 1812' W line
QUADRANGLE: SMITHFIELD **LONGITUDE:** -90.364386 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.401444 **DATE COLLECTED:** 7 / 26 / 1955
SURFACE ELEVATION (FT.): 685.0 **LOGGED (FT.):** 17.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-104A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.1	CARBONDALE	SPRINGFIELD	COAL	3.1	13.9	

MAPID: 05760103000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 5N 1E **SECTION:** 23 **QUARTERS/FOOTAGES:** 2480' S line, 1320' W line
QUADRANGLE: SMITHFIELD **LONGITUDE:** -90.366205 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.399706 **DATE COLLECTED:** 7 / 26 / 1955
SURFACE ELEVATION (FT.): 685.0 **LOGGED (FT.):** 29.4 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-104A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.3	CARBONDALE	SPRINGFIELD	COAL	5.7	23.7	

MAPID: 05760105000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 5N 1E **SECTION:** 23 **QUARTERS/FOOTAGES:** 800' S line, 1145' W line
QUADRANGLE: SMITHFIELD **LONGITUDE:** -90.366956 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.395076 **DATE COLLECTED:** 7 / 26 / 1955
SURFACE ELEVATION (FT.): 685.0 **LOGGED (FT.):** 27.6 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-104A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.2	CARBONDALE	SPRINGFIELD	COAL	5.8	21.8	

MAPID: 05760112000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 5N 1E **SECTION:** 23 **QUARTERS/FOOTAGES:** 760' S line, 620' E line
QUADRANGLE: SMITHFIELD **LONGITUDE:** -90.354145 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.394849 **DATE COLLECTED:** 7 / 26 / 1955
SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 28.9 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-104A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
538.4	CARBONDALE	COLCHESTER	COAL	2.3	26.6	BASE OF CARBONDALE

MAPID: 05786502000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 23 QUARTERS/FOOTAGES: 669' N line, 660' W line of NW SE

QUADRANGLE: SMITHFIELD LONGITUDE: -90.359052 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.398257 DATE COLLECTED: 3 / 17 / 1977

SURFACE ELEVATION (FT.): 653.5 LOGGED (FT.): 114.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE QQ489 WELL TYPE: Coal Test

COMMENT: IPAVA-CAMP ELLIS BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
653.5	PLEISTOCENE		UNCONSOLIDATED	14.0	0.0
639.5	CARBONDALE		SHALE	3.0	14.0
636.5	CARBONDALE		SANDSTONE	1.5	17.0
635.0	CARBONDALE		SHALE	3.5	18.5
631.5	CARBONDALE		GRAY SHALE	28.0	22.0
603.5	CARBONDALE		SANDY SHALE	56.2	50.0
547.3	CARBONDALE	COLCHESTER	COAL	2.1	106.2
545.2	CARBONDALE		UNDERCLAY	1.7	108.3
543.5	CARBONDALE		SHALE	4.0	110.0

MAPID: 05786504000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 23 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW NW

QUADRANGLE: SMITHFIELD LONGITUDE: -90.370952 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.400276 DATE COLLECTED: 5 / 15 / 1962

SURFACE ELEVATION (FT.): 668.6 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE QQ509 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
668.6	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0
659.6	PLEISTOCENE		CLAY	17.0	9.0
642.6	PLEISTOCENE		CLAY	12.0	26.0
630.6	CARBONDALE		SHALE	24.0	38.0 SOFT
606.6	CARBONDALE		SHALE	4.0	62.0 HARD
602.6	CARBONDALE		SANDY SHALE	34.0	66.0
568.6	CARBONDALE		SHALE	4.0	100.0 SOFT
564.6	CARBONDALE	COLCHESTER	COAL	2.2	104.0 GOOD
562.4	CARBONDALE		UNDERCLAY	1.8	106.2

MAPID: 05760110000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 24 QUARTERS/FOOTAGES: 1880' S line, 230' W line
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.351039 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.397906 DATE COLLECTED: 7 / 26 / 1955
 SURFACE ELEVATION (FT.): 565.0 LOGGED (FT.): 35.5 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM CS MAP 6-104A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
531.7	CARBONDALE	COLCHESTER	COAL	2.2	33.3	BASE OF CARBONDALE

MAPID: 05760111000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 24 QUARTERS/FOOTAGES: 1625' S line, 1250' W line
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.347366 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.397155 DATE COLLECTED: 7 / 26 / 1955
 SURFACE ELEVATION (FT.): 555.0 LOGGED (FT.): 20.9 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM CS MAP 6-104A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
536.6	CARBONDALE	COLCHESTER	COAL	2.5	18.4	BASE OF CARBONDALE

MAPID: 05760113000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 24 QUARTERS/FOOTAGES: 1000' S line, 195' W line
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.351197 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.395483 DATE COLLECTED: 7 / 26 / 1955
 SURFACE ELEVATION (FT.): 555.0 LOGGED (FT.): 15.7 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM CS MAP 6-104A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
541.4	CARBONDALE	COLCHESTER	COAL	2.1	13.6	BASE OF CARBONDALE

MAPID: 05786505000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 24 QUARTERS/FOOTAGES: 10' N line, 12' E line of NW SE

QUADRANGLE: SMITHFIELD LONGITUDE: -90.337115 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.39976 DATE COLLECTED: 1 / 26 / 1979

SURFACE ELEVATION (FT.): 602.3 LOGGED (FT.): 58.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE QQ523 WELL TYPE: Coal Test

COMMENT: SUNSPOT-IPAVA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
602.3	PLEISTOCENE		UNCONSOLIDATED	17.0	0.0
585.3	PLEISTOCENE		SAND & GRAVEL	16.0	17.0
569.3	PLEISTOCENE		UNCONSOLIDATED	6.0	33.0
563.3	CARBONDALE		GRAY SHALE	15.4	39.0
547.9	CARBONDALE	COLCHESTER	COAL	1.8	54.4
546.1	CARBONDALE		UNDERCLAY	1.8	56.2

MAPID: 05786740000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 24 QUARTERS/FOOTAGES: SE SW

QUADRANGLE: SMITHFIELD LONGITUDE: -90.344558 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.394448 DATE COLLECTED: 6 / 17 / 1976

SURFACE ELEVATION (FT.): 647.6 LOGGED (FT.): 116.0 LOG TYPE: Drillers Log

SOURCE: AMAX QQ419C WELL TYPE: Coal Test

COMMENT: IPAVA-CAMP ELLIS BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
647.6	PLEISTOCENE		SILT	2.0	0.0
645.6	PLEISTOCENE		CLAY	10.0	2.0
635.6	PLEISTOCENE		UNCONSOLIDATED	14.0	12.0
621.6	CARBONDALE		GRAY SHALE	32.0	26.0
589.6	CARBONDALE		SANDSTONE	2.0	58.0
587.6	CARBONDALE		SANDY SHALE	30.0	60.0
557.6	CARBONDALE		SANDY SHALE	16.0	90.0
541.6	CARBONDALE	COLCHESTER	COAL	2.1	106.0
539.5	CARBONDALE		UNDERCLAY	1.9	108.1
537.6	CARBONDALE		GRAY SHALE	6.0	110.0

MAPID: 05786741000C VERSION: 1

PROJECT:

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 24 QUARTERS/FOOTAGES: 892' N line, 820' W line of SE SE
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.334259 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.393657 DATE COLLECTED: 4 / 21 / 1980
 SURFACE ELEVATION (FT.): 636.7 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX QQ424HC WELL TYPE: Coal Test
 COMMENT: SUNSPOT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
636.7	PLEISTOCENE		CLAY	7.0	0.0
629.7	PLEISTOCENE		UNCONSOLIDATED	21.0	7.0
608.7	CARBONDALE		GRAY SANDSTONE	7.2	28.0
601.5	CARBONDALE		SANDY SHALE	47.8	35.2
553.7	CARBONDALE	COLCHESTER	COAL	2.0	83.0
551.7	CARBONDALE		UNDERCLAY	3.0	85.0

MAPID: 05786745000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 24 QUARTERS/FOOTAGES: 380' N line, 0' W line of SW NE
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.341941 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.402439 DATE COLLECTED: 10 / 18 / 1962
 SURFACE ELEVATION (FT.): 635.5 LOGGED (FT.): 94.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE QQ546C WELL TYPE: Coal Test
 COMMENT: IPAVA AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
635.5	PLEISTOCENE		CLAY	19.0	0.0
616.5	PLEISTOCENE		CLAY	23.0	19.0
593.5	PLEISTOCENE		CLAY	10.0	42.0
583.5	CARBONDALE		SANDY SHALE	39.0	52.0
544.5	CARBONDALE	COLCHESTER	COAL	2.0	91.0 GOOD
542.5	CARBONDALE		UNDERCLAY	1.0	93.0

MAPID: 0578650000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 25 QUARTERS/FOOTAGES: 1' N line, 1' E line of SE SE
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.332616 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.381464 DATE COLLECTED: 7 / 16 / 1974
 SURFACE ELEVATION (FT.): 625.3 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE QQ275 WELL TYPE: Coal Test
 COMMENT: CAMP ELLIS BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
625.3	PLEISTOCENE		CLAY	12.0	0.0	
613.3	CARBONDALE		BROWN SHALE	10.0	12.0	
603.3	CARBONDALE		GRAY SHALE	59.3	22.0	
544.0	CARBONDALE	COLCHESTER	COAL	1.6	81.3	
542.5	CARBONDALE		UNDERCLAY	2.2	82.8	

MAPID: 05786719000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 25 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.352077 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.381585 DATE COLLECTED: 7 / 11 / 1973
 SURFACE ELEVATION (FT.): 667.2 LOGGED (FT.): 123.0 LOG TYPE: Drillers Log
 SOURCE: AMAX QQ267 WELL TYPE: Coal Test
 COMMENT: CAMP (IPAVA) BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.2	PLEISTOCENE		SILT	3.0	0.0	
664.2	PLEISTOCENE		CLAY	7.0	3.0	
657.2	PLEISTOCENE		UNCONSOLIDATED	12.0	10.0	
645.2	CARBONDALE		GRAY SHALE	65.0	22.0	
580.2	CARBONDALE		GRAY SHALE	32.0	87.0	HARD
548.2	CARBONDALE	COLCHESTER	COAL	2.0	119.0	
546.2	CARBONDALE		UNDERCLAY	2.0	121.0	

MAPID: 05786724000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 25 QUARTERS/FOOTAGES: 660' N line, 675' E line of SE NW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.344678 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.387116 DATE COLLECTED: 11 / 1 / 1976
 SURFACE ELEVATION (FT.): 659.8 LOGGED (FT.): 114.0 LOG TYPE: Drillers Log
 SOURCE: AMAX QQ345 WELL TYPE: Coal Test
 COMMENT: IPAVA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.8	PLEISTOCENE		UNCONSOLIDATED	14.0	0.0	
645.8	PLEISTOCENE		CLAY	13.0	14.0	
632.8	CARBONDALE		GRAY SHALE	83.0	27.0	
549.8	CARBONDALE	COLCHESTER	COAL	2.1	110.0	
547.7	CARBONDALE		UNDERCLAY	1.9	112.1	

MAPID: 05786725000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 25 QUARTERS/FOOTAGES: 0' S line, 660' E line of NW NW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.349475 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.388988 DATE COLLECTED: 8 / 14 / 1973
 SURFACE ELEVATION (FT.): 668.6 LOGGED (FT.): 121.0 LOG TYPE: Drillers Log
 SOURCE: AMAX QQ368 WELL TYPE: Coal Test
 COMMENT: IPAVA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.6	PLEISTOCENE		SILT	3.0	0.0	
665.6	PLEISTOCENE		CLAY	9.0	3.0	
656.6	PLEISTOCENE		UNCONSOLIDATED	16.0	12.0	
640.6	CARBONDALE		GRAY SHALE	49.9	28.0	
590.7	CARBONDALE		LIMESTONE	1.1	77.9	HARD
589.6	CARBONDALE		GRAY SHALE	38.0	79.0	HARD
551.6	CARBONDALE	COLCHESTER	COAL	2.3	117.0	
549.3	CARBONDALE		UNDERCLAY	1.7	119.3	

MAPID: 05760099000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 26 QUARTERS/FOOTAGES: 435' N line, 1735' W line
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.364903 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.391653 DATE COLLECTED: 7 / 26 / 1955
 SURFACE ELEVATION (FT.): 672.0 LOGGED (FT.): 20.6 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM CS MAP 6-104A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.8	CARBONDALE	SPRINGFIELD	COAL	4.4	16.2	VERY SOFT

MAPID: 05760102000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 5N 1E **SECTION:** 26 **QUARTERS/FOOTAGES:** 2630' S line, 260' W line
QUADRANGLE: SMITHFIELD **LONGITUDE:** -90.37032 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.385603 **DATE COLLECTED:** 7 / 26 / 1955
SURFACE ELEVATION (FT.): 682.0 **LOGGED (FT.):** 27.6 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-104A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.4	CARBONDALE	SPRINGFIELD	COAL	5.0	22.6	

MAPID: 05760104000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 5N 1E **SECTION:** 26 **QUARTERS/FOOTAGES:** 1970' S line, 90' W line
QUADRANGLE: SMITHFIELD **LONGITUDE:** -90.370962 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.3838 **DATE COLLECTED:** 7 / 26 / 1955
SURFACE ELEVATION (FT.): 681.0 **LOGGED (FT.):** 21.8 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-104A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.1	CARBONDALE	SPRINGFIELD	COAL	3.9	17.9	

MAPID: 05760106000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 5N 1E **SECTION:** 26 **QUARTERS/FOOTAGES:** 1550' S line, 1800' E line
QUADRANGLE: SMITHFIELD **LONGITUDE:** -90.358563 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.382314 **DATE COLLECTED:** 7 / 26 / 1955
SURFACE ELEVATION (FT.): 682.0 **LOGGED (FT.):** 30.9 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-104A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
656.4	CARBONDALE	SPRINGFIELD	COAL	5.3	25.6	

MAPID: 05760107000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 5N 1E **SECTION:** 26 **QUARTERS/FOOTAGES:** 1560' S line, 550' E line
QUADRANGLE: SMITHFIELD **LONGITUDE:** -90.354055 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.382222 **DATE COLLECTED:** 7 / 26 / 1955
SURFACE ELEVATION (FT.): 675.0 **LOGGED (FT.):** 23.3 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-104A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
656.7	CARBONDALE	SPRINGFIELD	COAL	5.0	18.3	SOFT

MAPID: 05760108000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 26 QUARTERS/FOOTAGES: 830' S line, 1400' E line
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.357145 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.380291 DATE COLLECTED: 7 / 26 / 1955
 SURFACE ELEVATION (FT.): 678.0 LOGGED (FT.): 27.5 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM CS MAP 6-104A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
655.9	CARBONDALE	SPRINGFIELD	COAL	5.4	22.1

MAPID: 05760109000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 26 QUARTERS/FOOTAGES: 760' S line, 2730' E line
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.361943 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.380226 DATE COLLECTED: 7 / 26 / 1955
 SURFACE ELEVATION (FT.): 682.0 LOGGED (FT.): 34.2 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM CS MAP 6-104A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
653.2	CARBONDALE	SPRINGFIELD	COAL	5.4	28.8

MAPID: 05786501000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 26 QUARTERS/FOOTAGES: 660' N line, 660' W line of NW SW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.368904 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.383779 DATE COLLECTED: 2 / 23 / 1976
 SURFACE ELEVATION (FT.): 690.7 LOGGED (FT.): 138.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE QQ285 WELL TYPE: Coal Test
 COMMENT: CAMP ELLIS BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
690.7	PLEISTOCENE		SILT	1.0	0.0
689.7	PLEISTOCENE		CLAY	9.0	1.0
680.7	PLEISTOCENE		UNCONSOLIDATED	21.0	10.0
659.7	CARBONDALE		GRAY SHALE	9.0	31.0
650.7	CARBONDALE		GRAY SHALE	45.0	40.0
605.7	CARBONDALE		SANDY SHALE	5.0	85.0
600.7	CARBONDALE		GRAY SHALE	37.0	90.0
563.7	CARBONDALE	COLCHESTER	COAL	2.0	127.0
561.7	CARBONDALE		UNDERCLAY	2.0	129.0
559.7	CARBONDALE		GRAY SHALE	7.0	131.0

MAPID: 05786718000C VERSION: 1

PROJECT: NCRDS002

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 26 QUARTERS/FOOTAGES: 0' S line, 660' W line of NE SW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.364125 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.381852 DATE COLLECTED: 7 / 3 / 1974
 SURFACE ELEVATION (FT.): 685.0 LOGGED (FT.): 30.7 LOG TYPE: Drillers Log
 SOURCE: AMAX QQ262 WELL TYPE: Coal Test
 COMMENT: CAMP ELLIS AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.0	PLEISTOCENE		CLAY	22.0	0.0	
663.0	CARBONDALE		SHALE	4.0	22.0	
659.0	CARBONDALE	SPRINGFIELD	COAL	1.7	26.0	SOFT
657.3	CARBONDALE		UNDERCLAY	3.0	27.7	

MAPID: 05786723000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 26 QUARTERS/FOOTAGES: 660' S line, 495' E line of SE NE
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.353794 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.387153 DATE COLLECTED: 8 / 28 / 1973
 SURFACE ELEVATION (FT.): 669.5 LOGGED (FT.): 114.0 LOG TYPE: Drillers Log
 SOURCE: AMAX QQ341N WELL TYPE: Coal Test
 COMMENT: IPAVA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.5	PLEISTOCENE		SILT	3.0	0.0	
666.5	PLEISTOCENE		CLAY	7.0	3.0	
659.5	PLEISTOCENE		UNCONSOLIDATED	14.0	10.0	
645.5	CARBONDALE		GRAY SHALE	50.0	24.0	
595.5	CARBONDALE		GRAY SHALE	36.0	74.0	HARD
559.5	CARBONDALE	COLCHESTER	COAL	2.0	110.0	
557.5	CARBONDALE		UNDERCLAY	2.0	112.0	

MAPID: 05786726000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 26 QUARTERS/FOOTAGES: 660' N line, 0' E line of NW NW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.366368 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.391043 DATE COLLECTED: 7 / 25 / 1973
 SURFACE ELEVATION (FT.): 667.3 LOGGED (FT.): 142.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE QQ386 WELL TYPE: Coal Test
 COMMENT: IPAVA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.3	PLEISTOCENE		SILT	3.0	0.0	
664.3	PLEISTOCENE		CLAY	6.0	3.0	
658.3	PLEISTOCENE		UNCONSOLIDATED	12.0	9.0	
646.3	CARBONDALE		COAL	6.5	21.0	SOFT; TOP ERODED
639.8	CARBONDALE		UNDERCLAY	1.5	27.5	
638.3	CARBONDALE		GRAY SHALE	109.0	29.0	HARD
529.3	CARBONDALE	COLCHESTER	COAL	2.2	138.0	
527.1	CARBONDALE		UNDERCLAY	1.8	140.2	

MAPID: 05786498000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 27 QUARTERS/FOOTAGES: 820' N line, 932' W line of NE NW
 QUADRANGLE: ADAIR LONGITUDE: -90.382112 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.390895 DATE COLLECTED: 12 / 5 / 1977
 SURFACE ELEVATION (FT.): 671.2 LOGGED (FT.): 111.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE QQ154EP WELL TYPE: Coal Test
 COMMENT: IPAVA SUNSPOT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.2	PLEISTOCENE		CLAY	10.0	0.0	
661.2	PLEISTOCENE		UNCONSOLIDATED	42.0	10.0	
619.2	CARBONDALE		GRAY SHALE	55.0	52.0	
564.2	CARBONDALE	COLCHESTER	COAL	2.3	107.0	
561.9	CARBONDALE		UNDERCLAY	1.7	109.3	

MAPID: 05786720000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 27 QUARTERS/FOOTAGES: NW SW

QUADRANGLE: ADAIR LONGITUDE: -90.388138 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.384084 DATE COLLECTED: 7 / 27 / 1976

SURFACE ELEVATION (FT.): 664.1 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log

SOURCE: AMAX QQ277 WELL TYPE: Coal Test

COMMENT: IPAVA-CAMP ELLIS BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.1	PLEISTOCENE		SILT	1.0	0.0	
663.1	PLEISTOCENE		CLAY	9.0	1.0	
654.1	PLEISTOCENE		UNCONSOLIDATED	25.0	10.0	
629.1	CARBONDALE		GRAY SHALE	34.5	35.0	
594.6	CARBONDALE	COLCHESTER	COAL	2.0	69.5	
592.6	CARBONDALE		UNDERCLAY	2.0	71.5	
590.6	CARBONDALE		MICACEOUS SHALE	2.5	73.5	

MAPID: 05786721000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 27 QUARTERS/FOOTAGES: NE SW

QUADRANGLE: ADAIR LONGITUDE: -90.383323 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.384009 DATE COLLECTED: 11 / 16 / 1976

SURFACE ELEVATION (FT.): 587.9 LOGGED (FT.): 17.0 LOG TYPE: Drillers Log

SOURCE: AMAX QQ278EK WELL TYPE: Coal Test

COMMENT: IPAVA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
587.9	PLEISTOCENE		CLAY	5.5	0.0	
582.4	CARBONDALE	COLCHESTER	COAL	2.0	5.5	TOP ERODED
580.4	CARBONDALE		UNDERCLAY	1.5	7.5	
578.9	CARBONDALE		GRAY SHALE	8.0	9.0	

MAPID: 05786722000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 27 QUARTERS/FOOTAGES: 630' N line, 660' E line of NW SE
 QUADRANGLE: ADAIR LONGITUDE: -90.378477 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.384026 DATE COLLECTED: 9 / 24 / 1962
 SURFACE ELEVATION (FT.): 656.9 LOGGED (FT.): 95.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE QQ281 WELL TYPE: Coal Test
 COMMENT: TABLE GROVE AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
656.9	PLEISTOCENE		CLAY	11.0	0.0
645.9	PLEISTOCENE		CLAY	12.0	11.0
633.9	PLEISTOCENE		CLAY	5.0	23.0
628.9	CARBONDALE		SANDY SHALE	63.0	28.0
565.9	CARBONDALE	COLCHESTER	COAL	2.3	91.0
563.6	CARBONDALE		UNDERCLAY	1.8	93.3

MAPID: 05786508000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 28 QUARTERS/FOOTAGES: 336' S line, 345' W line of SW SW
 QUADRANGLE: ADAIR LONGITUDE: -90.408528 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.379592 DATE COLLECTED: 11 / 16 / 1979
 SURFACE ELEVATION (FT.): 678.7 LOGGED (FT.): 77.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE RR217A WELL TYPE: Coal Test
 COMMENT: IPAVA-SUNSPOT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
678.7	PLEISTOCENE		UNCONSOLIDATED	25.0	0.0
653.7	PLEISTOCENE		GRAVEL	2.0	25.0
651.7	CARBONDALE		SHALE	43.7	27.0
608.0	CARBONDALE	COLCHESTER	COAL	1.7	70.7
606.3	CARBONDALE		UNDERCLAY	4.6	72.4

MAPID: 05724699000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 29 QUARTERS/FOOTAGES: 2655' N line, 635' E line
 QUADRANGLE: ADAIR LONGITUDE: -90.411855 GEOLOGIST: J. MCBETH
 CONFIDENTIAL: N LATITUDE: 40.386159 DATE COLLECTED: 3 / 16 / 1976
 SURFACE ELEVATION (FT.): LOGGED (FT.): 71.3 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. RR266 WELL TYPE: Coal Test
 COMMENT: PERMIT 26; SUNSPOT MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		UNCONSOLIDATED	49.0	0.0	
-	CARBONDALE	FRANCIS CREEK	SILTY SHALE	14.3	49.0	SLIGHTLY CARBONACEOUS; TRACE PYRITE
-	CARBONDALE	COLCHESTER	COAL	2.0	63.3	
-	CARBONDALE		UNDERCLAY	2.0	65.3	
-	CARBONDALE		SILTY SHALE	4.0	67.3	TRACE PYRITE

MAPID: 05786506000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 29 QUARTERS/FOOTAGES: 341' S line, 320' W line of SW SW
 QUADRANGLE: ADAIR LONGITUDE: -90.427693 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.37967 DATE COLLECTED: 11 / 16 / 1978
 SURFACE ELEVATION (FT.): 693.9 LOGGED (FT.): 96.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE RR209A WELL TYPE: Coal Test
 COMMENT: IPAVA-SUNSPOT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.9	PLEISTOCENE		UNCONSOLIDATED	21.0	0.0	
672.9	PLEISTOCENE		UNCONSOLIDATED	24.5	21.0	
648.4	CARBONDALE		GRAY SHALE	40.5	45.5	
607.9	CARBONDALE	COLCHESTER	COAL	2.2	86.0	
605.7	CARBONDALE		UNDERCLAY	1.6	88.2	
604.1	CARBONDALE		SHALE	6.2	89.8	

MAPID: 05786644000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 29 QUARTERS/FOOTAGES: 325' S line, 330' W line of SW NW
 QUADRANGLE: ADAIR LONGITUDE: -90.427462 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.387017 DATE COLLECTED: 11 / 20 / 1978
 SURFACE ELEVATION (FT.): 681.7 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE RR309A WELL TYPE: Coal Test
 COMMENT: IPAVA SUNSPOT BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.7	PLEISTOCENE		CLAY	24.0	0.0
657.7	PLEISTOCENE		CLAY	17.0	24.0
640.7	CARBONDALE		GRAY SHALE	43.0	41.0
597.7	CARBONDALE	COLCHESTER	COAL	2.2	84.0
595.5	CARBONDALE		UNDERCLAY	1.8	86.2

MAPID: 05786645000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SE
 QUADRANGLE: ADAIR LONGITUDE: -90.419231 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.382401 DATE COLLECTED: 2 / 12 / 1976
 SURFACE ELEVATION (FT.): 681.6 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE RR313 WELL TYPE: Coal Test
 COMMENT: IPAVA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.6	PLEISTOCENE		UNCONSOLIDATED	24.0	0.0
657.6	PLEISTOCENE		CLAY	16.0	24.0
641.6	CARBONDALE		GRAY SHALE	40.2	40.0
601.4	CARBONDALE	COLCHESTER	COAL	2.3	80.2
599.1	CARBONDALE		MICACEOUS SHALE	5.5	82.5

MAPID: 05786646000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 29 QUARTERS/FOOTAGES: 1320' S line, 760' W line of NE SE
 QUADRANGLE: ADAIR LONGITUDE: -90.411604 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.38602 DATE COLLECTED: 2 / 13 / 1976
 SURFACE ELEVATION (FT.): 680.1 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE RR316Y WELL TYPE: Coal Test
 COMMENT: IPAVA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.1	PLEISTOCENE		SILT	2.0	0.0
678.1	PLEISTOCENE		CLAY	8.0	2.0
670.1	PLEISTOCENE		UNCONSOLIDATED	26.0	10.0
644.1	CARBONDALE		GRAY SHALE	41.0	36.0
603.1	CARBONDALE	COLCHESTER	COAL	2.0	77.0
601.1	CARBONDALE		UNDERCLAY	2.0	79.0
599.1	CARBONDALE		MICACEOUS SHALE	7.0	81.0

MAPID: 05786757000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 29 QUARTERS/FOOTAGES: 1015' S line, 340' W line of NW SW
 QUADRANGLE: ADAIR LONGITUDE: -90.427475 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.385226 DATE COLLECTED: 11 / 16 / 1978
 SURFACE ELEVATION (FT.): 662.8 LOGGED (FT.): 66.0 LOG TYPE: Drillers Log
 SOURCE: AMAX RR284AJ WELL TYPE: Coal Test
 COMMENT: IPAVA SUNSPOT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
662.8	PLEISTOCENE		CLAY	5.0	0.0
657.8	PLEISTOCENE		CLAY	13.0	5.0
644.8	CARBONDALE		GRAY SHALE	44.0	18.0
600.8	CARBONDALE	COLCHESTER	COAL	2.4	62.0
598.4	CARBONDALE		UNDERCLAY	1.6	64.4

MAPID: 05786642000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 30 QUARTERS/FOOTAGES: 20' N line, 15' E line of NW SW

QUADRANGLE: ADAIR LONGITUDE: -90.443426 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.386105 DATE COLLECTED: 10 / 23 / 1975

SURFACE ELEVATION (FT.): 684.1 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log

SOURCE: AMAX RR303 WELL TYPE: Coal Test

COMMENT: TABLEGROVE BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.1	PLEISTOCENE		SILT	3.0	0.0
681.1	PLEISTOCENE		CLAY	8.0	3.0
673.1	PLEISTOCENE		UNCONSOLIDATED	28.0	11.0
645.1	CARBONDALE		SANDY SHALE	17.0	39.0
628.1	CARBONDALE		BLACK SHALE	2.0	56.0
626.1	CARBONDALE		GRAY SHALE	22.8	58.0
603.3	CARBONDALE	COLCHESTER	COAL	2.2	80.8
601.1	CARBONDALE		UNDERCLAY	2.0	83.0

MAPID: 05786643000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 30 QUARTERS/FOOTAGES: 340' S line, 340' E line of SE NE

QUADRANGLE: ADAIR LONGITUDE: -90.429881 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.387065 DATE COLLECTED: 1 / 23 / 1979

SURFACE ELEVATION (FT.): 670.1 LOGGED (FT.): 73.2 LOG TYPE: Drillers Log

SOURCE: AMAX RR308A WELL TYPE: Coal Test

COMMENT: IPAVA SUNSPOT BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
670.1	PLEISTOCENE		CLAY	6.0	0.0
664.1	PLEISTOCENE		CLAY	36.0	6.0
628.1	CARBONDALE		DARK SHALE	26.5	42.0
601.6	CARBONDALE	COLCHESTER	COAL	2.0	68.5
599.6	CARBONDALE		UNDERCLAY	2.7	70.5

MAPID: 05700020000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 5N 1E

SECTION: 32

QUARTERS/FOOTAGES: SE NE NW

QUADRANGLE: ADAIR

LONGITUDE: -90.420557

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.375973

DATE COLLECTED: 12 / 0 / 1941

SURFACE ELEVATION (FT.): 624.7

LOGGED (FT.): 40.0

LOG TYPE: Survey Core Study

SOURCE: ILLINOIS DIV. OF WATERWAYS

WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
624.7			UNCONSOLIDATED	12.8	0.0	
611.9	CARBONDALE		SHALE	5.8	12.8	
606.2	CARBONDALE		SANDSTONE	0.7	18.5	
605.5	CARBONDALE	COLCHESTER	COAL	2.0	19.2	BASE OF CARBONDALE
603.5	SPOON		UNDERCLAY	2.3	21.2	
601.2	SPOON		SILTSTONE	6.5	23.5	CALC
594.7	SPOON		SANDSTONE	4.5	30.0	FN GRND,IRREG LAMD
590.2	SPOON		SHALE	4.5	34.5	STY,INTRLAMD W/ FN-GRND SS
585.7	SPOON		BLACK SHALE	0.5	39.0	BK,MICS
585.2	SPOON		CLAYSTONE	0.1	39.5	
585.1	SPOON	WILEY	COAL	0.4	39.6	

MAPID: 05700020000C VERSION: 2

PROJECT: NCRDS87

COUNTY: FULTON

TWP/RNG: 5N 1E

SECTION: 32

QUARTERS/FOOTAGES: SE NE NW

QUADRANGLE: ADAIR

LONGITUDE: -90.420557

GEOLOGIST: WEIBEL

CONFIDENTIAL: N

LATITUDE: 40.375973

DATE COLLECTED: 12 / 0 / 1941

SURFACE ELEVATION (FT.): 624.7

LOGGED (FT.): 40.0

LOG TYPE: Survey Core Study

SOURCE: TABLE GROVE DAMSITE

WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
624.7			UNCONSOLIDATED	12.8	0.0	
611.9	CARBONDALE		GRAY SHALE	5.8	12.8	
606.2	CARBONDALE		SANDSTONE	0.7	18.5	
605.5	CARBONDALE	COLCHESTER	COAL	2.0	19.2	
603.5			UNDERCLAY	2.3	21.2	
601.2			SILTSTONE	6.5	23.5	
594.7			SANDSTONE	4.5	30.0	
590.2			SHALE	4.5	34.5	
585.7			BLACK SHALE	0.5	39.0	
585.2			UNCLASSIFIED	0.1	39.5	
585.1	SPOON	WILEY	COAL	0.4	39.6	UNCERTAIN CORRELATION

MAPID: 05701162000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 32 QUARTERS/FOOTAGES: 335' S line, 250' W line

QUADRANGLE: VERMONT LONGITUDE: -90.428202 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.365135 DATE COLLECTED: 10 / 0 / 1952

SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 675.0 LOG TYPE: Drillers Log

SOURCE: LAYNE-WESTERN CO. WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.0			UNCONSOLIDATED	70.0	0.0	RCRD FROM SPL STDY
630.0	CARBONDALE		SHALE	80.0	70.0	STY,GN AND GY
550.0	CARBONDALE	COLCHESTER	COAL	5.0	150.0	BS CARBONDALE, CTNS UCL
545.0	SPOON		SHALE	10.0	155.0	STY,FNLY MICS,LT GY,LS AT TOP
535.0	SPOON		SANDSTONE	5.0	165.0	DOLC,STY,MICS,LT GY,FIN TO MED GRND
530.0	SPOON		SHALE	5.0	170.0	FNLY MICS,GY
525.0	SPOON	WILEY	COAL WITH SHALE	10.0	175.0	THN C,UCL FNLY MICS,PYRC,LT GY
515.0	SPOON		SHALE	10.0	185.0	SDY,STY,FNLY MICS,LT GY
505.0	SPOON		SANDSTONE	23.0	195.0	MICS,DOLC,CARB,FN TO MED GRND,LS AT BS
482.0	SPOON	ROCK ISLAND	COAL	2.0	218.0	
480.0	SPOON		UNDERCLAY	10.0	220.0	BS SPOON, SDY, LT GY TO GY
470.0	ABBOTT		SHALE	5.0	230.0	SDY,FNLY MICS,DK GY
465.0	ABBOTT		SANDSTONE	12.0	235.0	BS PENNSYLVANIAN, STY, FN TO CS GRD,CARB
453.0			ROCK	428.0	247.0	MISSISSIPPIAN

MAPID: 05786507000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 32 QUARTERS/FOOTAGES: 7' S line, 708' E line of NW NW

QUADRANGLE: VERMONT LONGITUDE: -90.426708 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.375114 DATE COLLECTED:

SURFACE ELEVATION (FT.): 676.0 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE RR210 WELL TYPE: Coal Test

COMMENT: IPAVA-SUNSPOT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.0	PLEISTOCENE		UNCONSOLIDATED	23.0	0.0	
653.0	PLEISTOCENE		CLAY	3.0	23.0	
650.0	CARBONDALE		DARK SHALE	44.4	26.0	
605.6	CARBONDALE	COLCHESTER	COAL	2.0	70.4	
603.6	CARBONDALE		UNDERCLAY	5.6	72.4	

MAPID: 05786737000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 32 QUARTERS/FOOTAGES: 333' N line, 324' E line of SW NW

QUADRANGLE: VERMONT LONGITUDE: -90.425335 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.374167 DATE COLLECTED: 10 / 26 / 1977

SURFACE ELEVATION (FT.): 681.0 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log

SOURCE: AMAX RR109A WELL TYPE: Coal Test

COMMENT: IPAVA SUNSPOT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.0	PLEISTOCENE		SILT	1.0	0.0
680.0	PLEISTOCENE		CLAY	9.0	1.0
671.0	PLEISTOCENE		UNCONSOLIDATED	33.0	10.0
638.0	CARBONDALE		GRAY SHALE	44.2	43.0
593.8	CARBONDALE	COLCHESTER	COAL	2.2	87.2
591.6	CARBONDALE		UNDERCLAY	1.6	89.4
590.0	CARBONDALE		MICACEOUS SHALE	7.0	91.0

MAPID: 05786738000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 32 QUARTERS/FOOTAGES: 19' S line, 306' E line of SW NE

QUADRANGLE: VERMONT LONGITUDE: -90.415717 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.371438 DATE COLLECTED: 4 / 15 / 1980

SURFACE ELEVATION (FT.): 672.4 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log

SOURCE: AMAX RR114BN WELL TYPE: Coal Test

COMMENT: SUNSPOT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
672.4	PLEISTOCENE		CLAY	7.0	0.0
665.4	PLEISTOCENE		CLAY	18.0	7.0
647.4	PLEISTOCENE		UNCONSOLIDATED	7.7	25.0
639.7	CARBONDALE		SANDY SHALE	45.1	32.7
594.6	CARBONDALE	COLCHESTER	COAL	2.0	77.8
592.6	CARBONDALE		UNDERCLAY	1.2	79.8

MAPID: 05786746000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 32 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SE

QUADRANGLE: VERMONT LONGITUDE: -90.419442 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.367764 DATE COLLECTED: 6 / 29 / 1974

SURFACE ELEVATION (FT.): 683.8 LOGGED (FT.): 130.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE RR63 WELL TYPE: Coal Test

COMMENT: IPAVA AND CAMP ELLIS BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
683.8	PLEISTOCENE		CLAY	26.0	0.0
657.8	PLEISTOCENE		CLAY	12.0	26.0
645.8	CARBONDALE		SHALE	55.3	38.0
590.5	CARBONDALE	COLCHESTER	COAL	1.9	93.3
588.6	CARBONDALE		UNDERCLAY	2.8	95.2
585.8	TRADEWATER		SANDY SHALE	21.0	98.0
564.8	TRADEWATER		LIMESTONE	0.8	119.0
564.0	TRADEWATER		SHALE	10.2	119.8

MAPID: 05724700000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 33 QUARTERS/FOOTAGES: 1293' S line, 1677' W line

QUADRANGLE: VERMONT LONGITUDE: -90.403777 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.367486 DATE COLLECTED: 3 / 16 / 1978

SURFACE ELEVATION (FT.): 683.7 LOGGED (FT.): 122.0 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. RR44FO WELL TYPE: Coal Test

COMMENT: PERMIT 26; SUNSPOT MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
683.7	PLEISTOCENE		CLAY	22.2	0.0
661.5	PLEISTOCENE		UNCONSOLIDATED	17.1	22.2
644.4	CARBONDALE	FRANCIS CREEK	GRAY SHALE	35.0	39.3
609.4	CARBONDALE	COLCHESTER	COAL	2.1	74.3
607.3	CARBONDALE		UNDERCLAY	1.6	76.4
605.7	CARBONDALE		GRAY SHALE	1.8	78.0
603.9	CARBONDALE		SANDY SHALE	8.7	79.8
595.2	CARBONDALE		SANDSTONE	1.3	88.5
593.9	CARBONDALE		GRAY SHALE	2.7	89.8
591.2	CARBONDALE		SANDY SHALE	2.4	92.5
588.8	CARBONDALE		SANDSTONE	1.1	94.9
587.7	CARBONDALE		GRAY SHALE	18.4	96.0
569.3	CARBONDALE		SANDSTONE	5.1	114.4
564.2	CARBONDALE		GRAY SHALE	1.9	119.5
562.3	CARBONDALE	WILEY	COAL	0.6	121.4

WITH SANDSTONE
BEDS

MAPID: 05724701000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 33 QUARTERS/FOOTAGES: 1300' S line, 1650' W line

QUADRANGLE: VERMONT LONGITUDE: -90.403875 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.367508 DATE COLLECTED: 2 / 5 / 1976

SURFACE ELEVATION (FT.): 682.8 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. RR69B WELL TYPE: Coal Test

COMMENT: PERMIT 26; SUNSPOT MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.8	PLEISTOCENE		CLAY	35.0	0.0	
647.8	PLEISTOCENE		CLAY	10.0	35.0	
637.8	CARBONDALE	FRANCIS CREEK	SHALE	34.2	45.0	DARK GRAY
603.6	CARBONDALE	COLCHESTER	COAL	2.2	79.2	
601.4	CARBONDALE		UNDERCLAY	2.7	81.4	
598.7	CARBONDALE		SHALE	5.9	84.1	LIGHT GRAY

MAPID: 05724702000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 33 QUARTERS/FOOTAGES: 1300' S line, 1677' W line

QUADRANGLE: VERMONT LONGITUDE: -90.403778 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.367506 DATE COLLECTED: 8 / 15 / 1978

SURFACE ELEVATION (FT.): 683.7 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: AMAX COAL CO. RR69BN WELL TYPE: Coal Test

COMMENT: PERMIT 26; SUNSPOT MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.7	PLEISTOCENE		CLAY	22.0	0.0	
661.7	PLEISTOCENE		UNCONSOLIDATED	17.0	22.0	
644.7	CARBONDALE	FRANCIS CREEK	GRAY SHALE	35.0	39.0	
609.7	CARBONDALE	COLCHESTER	COAL	2.1	74.0	
607.6	CARBONDALE		UNDERCLAY	1.9	76.1	
605.7	CARBONDALE		GRAY SHALE	12.0	78.0	

MAPID: 05786496000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 33 QUARTERS/FOOTAGES: 660' S line, 1' E line of SE NE

QUADRANGLE: VERMONT LONGITUDE: -90.390712 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.372972 DATE COLLECTED: 4 / 20 / 1962

SURFACE ELEVATION (FT.): 684.7 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE QQ126 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.7	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
675.7	PLEISTOCENE		CLAY	8.0	9.0	
667.7	PLEISTOCENE		CLAY	18.0	17.0	
649.7	CARBONDALE		SHALE	47.0	35.0	SOFT
602.7	CARBONDALE	COLCHESTER	COAL	2.1	82.0	GOOD
600.6	CARBONDALE		UNDERCLAY	1.9	84.1	

MAPID: 05786497000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 34 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW NW

QUADRANGLE: VERMONT LONGITUDE: -90.389531 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.373943 DATE COLLECTED: 12 / 15 / 1976

SURFACE ELEVATION (FT.): 684.0 LOGGED (FT.): 94.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE QQ126A WELL TYPE: Coal Test

COMMENT: IPAVA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.0	PLEISTOCENE		UNCONSOLIDATED	19.0	0.0	
665.0	PLEISTOCENE		SAND	5.0	19.0	
660.0	PLEISTOCENE		UNCONSOLIDATED	15.0	24.0	
645.0	CARBONDALE		GRAY SHALE	51.5	39.0	
593.5	CARBONDALE	COLCHESTER	COAL	2.0	90.5	
591.5	CARBONDALE		UNDERCLAY	1.5	92.5	

MAPID: 05786713000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 34 QUARTERS/FOOTAGES: 15' N line, 1' W line of SW SW

QUADRANGLE: VERMONT LONGITUDE: -90.390619 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.36739 DATE COLLECTED: 4 / 5 / 1977

SURFACE ELEVATION (FT.): 683.2 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log

SOURCE: AMAX QQ1 WELL TYPE: Coal Test

COMMENT: NORTHEAST BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.2	PLEISTOCENE		CLAY	28.0	0.0	
655.2	PLEISTOCENE		CLAY	15.0	28.0	
640.2	CARBONDALE		GRAY SHALE	52.0	43.0	
588.2	CARBONDALE	COLCHESTER	COAL	2.0	95.0	
586.2	CARBONDALE		UNDERCLAY	3.0	97.0	
583.2	CARBONDALE		GRAY SHALE	8.0	100.0	

MAPID: 05786716000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 34 QUARTERS/FOOTAGES: 324' S line, 328' W line of SW NW

QUADRANGLE: VERMONT LONGITUDE: -90.38951 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.372029 DATE COLLECTED: 12 / 14 / 1976

SURFACE ELEVATION (FT.): 686.5 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log

SOURCE: AMAX QQ101A WELL TYPE: Coal Test

COMMENT: IPA VA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
686.5	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0	20
683.5	PLEISTOCENE		CLAY	20.0	3.0	BROWN
663.5	PLEISTOCENE		CLAY	5.0	23.0	GREY
658.5	PLEISTOCENE		CLAY	6.0	28.0	SANDY
652.5	CARBONDALE		GRAY SHALE	54.4	34.0	
598.1	CARBONDALE	COLCHESTER	COAL	1.8	88.4	
596.3	CARBONDALE		UNDERCLAY	3.8	90.2	
592.5	CARBONDALE		SANDY SHALE	4.0	94.0	

MAPID: 05786728000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 34 QUARTERS/FOOTAGES: 1320' N line, 0' W line of NE NE
 QUADRANGLE: VERMONT LONGITUDE: -90.3763 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.37479 DATE COLLECTED: 8 / 1 / 1973
 SURFACE ELEVATION (FT.): 682.7 LOGGED (FT.): 128.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE QQ157 WELL TYPE: Coal Test
 COMMENT: IPAVA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.7	PLEISTOCENE		SILT	3.0	0.0	
679.7	PLEISTOCENE		CLAY	7.0	3.0	
672.7	PLEISTOCENE		UNCONSOLIDATED	24.0	10.0	
648.7	CARBONDALE		GRAY SHALE	33.0	34.0	
615.7	CARBONDALE		GRAY SHALE	57.0	67.0	HARD
558.7	CARBONDALE	COLCHESTER	COAL	2.2	124.0	
556.5	CARBONDALE		UNDERCLAY	1.8	126.2	

MAPID: 05786743000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 34 QUARTERS/FOOTAGES: 0' N line, 0' E line of NE NE
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.37137 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.378377 DATE COLLECTED: 3 / 22 / 1961
 SURFACE ELEVATION (FT.): 681.1 LOGGED (FT.): 120.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE QQ209 WELL TYPE: Coal Test
 COMMENT: CAMP ELLIS AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.1	PLEISTOCENE		CLAY	28.0	0.0	
653.1	PLEISTOCENE		CLAY	2.0	28.0	
651.1	PLEISTOCENE		BOULDER	2.0	30.0	
649.1	PLEISTOCENE		CLAY	4.0	32.0	
645.1	CARBONDALE		SHALE	36.0	36.0	
609.1	CARBONDALE		SHALE	5.0	72.0	
604.1	CARBONDALE		MICACEOUS SHALE	39.0	77.0	
565.1	CARBONDALE	COLCHESTER	COAL	2.3	116.0	
562.8	CARBONDALE		UNDERCLAY	1.7	118.3	

MAPID: 05786499000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 35 QUARTERS/FOOTAGES: 1' S line, 1' W line of SE SE
 QUADRANGLE: IPAVA LONGITUDE: -90.3572 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.363428 DATE COLLECTED: 6 / 16 / 1961
 SURFACE ELEVATION (FT.): 630.4 LOGGED (FT.): 69.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE QQ15 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.4	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
622.4	CARBONDALE		SHALE	11.0	8.0	SOFT
611.4	CARBONDALE		SANDSTONE	12.0	19.0	
599.4	CARBONDALE		SHALE	27.0	31.0	LAMINATED
572.4	CARBONDALE		SHALE	8.0	58.0	SOFT
564.4	CARBONDALE	COLCHESTER	COAL	1.8	66.0	GOOD
562.6	CARBONDALE		UNDERCLAY	1.2	67.8	

MAPID: 05786714000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 35 QUARTERS/FOOTAGES: 660' S line, 660' E line of SE SE
 QUADRANGLE: IPAVA LONGITUDE: -90.354676 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.365242 DATE COLLECTED: 6 / 16 / 1961
 SURFACE ELEVATION (FT.): 629.1 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE QQ41 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.1	PLEISTOCENE		CLAY	20.0	0.0	
609.1	CARBONDALE		SHALE	5.0	20.0	SOFT
604.1	CARBONDALE		LIMESTONE	1.0	25.0	HARD
603.1	CARBONDALE		SANDSTONE	6.0	26.0	
597.1	CARBONDALE		SANDY SHALE	8.0	32.0	
589.1	CARBONDALE		SHALE	27.0	40.0	SOFT
562.1	CARBONDALE	COLCHESTER	COAL	2.4	67.0	GOOD
559.7	CARBONDALE		UNDERCLAY	2.5	69.4	

MAPID: 05760114000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 5N 1E **SECTION:** 36 **QUARTERS/FOOTAGES:** 70' S line, 145' E line of NW
QUADRANGLE: IPAVA **LONGITUDE:** -90.343069 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.370791 **DATE COLLECTED:** 7 / 26 / 1955
SURFACE ELEVATION (FT.): 638.0 **LOGGED (FT.):** 72.8 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-104A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
567.2	CARBONDALE	COLCHESTER	COAL	2.0	70.8	BASE OF CARBONDALE

MAPID: 05760115000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 5N 1E **SECTION:** 36 **QUARTERS/FOOTAGES:** 90' N line, 90' E line of SE NW
QUADRANGLE: IPAVA **LONGITUDE:** -90.342808 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.373967 **DATE COLLECTED:** 7 / 26 / 1955
SURFACE ELEVATION (FT.): 610.0 **LOGGED (FT.):** 73.9 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-104A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
538.3	CARBONDALE	COLCHESTER	COAL	2.2	71.7	BASE OF CARBONDALE

MAPID: 05786495000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: FULTON **TWP/RNG:** 5N 1E **SECTION:** 36 **QUARTERS/FOOTAGES:** 165' S line, 20' E line of SE NE
QUADRANGLE: IPAVA **LONGITUDE:** -90.332938 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.371001 **DATE COLLECTED:** 0 / 0 / 1976
SURFACE ELEVATION (FT.): 625.4 **LOGGED (FT.):** 83.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE QQ125J **WELL TYPE:** Coal Test
COMMENT: IPAVA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
625.4	PLEISTOCENE		CLAY	19.0	0.0	
606.4	PLEISTOCENE		SAND	1.5	19.0	
604.9	PLEISTOCENE		UNCONSOLIDATED	9.5	20.5	
595.4	CARBONDALE		SANDY SHALE	31.0	30.0	
564.4	CARBONDALE		GRAY SHALE	14.0	61.0	
550.4	CARBONDALE	COLCHESTER	COAL	2.0	75.0	
548.4	CARBONDALE		UNDERCLAY	2.0	77.0	
546.4	CARBONDALE		GRAY SHALE	4.0	79.0	

MAPID: 05786715000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 36 QUARTERS/FOOTAGES: 660' S line, 0' W line of SW SE

QUADRANGLE: IPAVA LONGITUDE: -90.342651 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.365173 DATE COLLECTED: 4 / 9 / 1962

SURFACE ELEVATION (FT.): 636.1 LOGGED (FT.): 91.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE QQ46 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
636.1	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0	
631.1	PLEISTOCENE		CLAY	12.0	5.0	
619.1	CARBONDALE		SHALE	26.0	17.0	SOFT
593.1	CARBONDALE		ROCK	2.0	43.0	
591.1	CARBONDALE		SANDY SHALE	40.0	45.0	
551.1	CARBONDALE		SHALE	3.0	85.0	SOFT
548.1	CARBONDALE	COLCHESTER	COAL	1.9	88.0	GOOD
546.2	CARBONDALE		UNDERCLAY	1.1	89.9	

MAPID: 05786717000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 1E SECTION: 36 QUARTERS/FOOTAGES: 0' N line, 660' W line of NW SW

QUADRANGLE: IPAVA LONGITUDE: -90.349843 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.37063 DATE COLLECTED: 6 / 26 / 1963

SURFACE ELEVATION (FT.): 662.4 LOGGED (FT.): 110.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE QQ118 WELL TYPE: Coal Test

COMMENT: IPAVA AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.4	PLEISTOCENE		CLAY	6.0	0.0	
656.4	PLEISTOCENE		CLAY	11.0	6.0	
645.4	CARBONDALE		MICACEOUS SHALE	12.0	17.0	SOFT
633.4	CARBONDALE		DARK SHALE	34.0	29.0	SOFT
599.4	CARBONDALE		SANDY SHALE	43.0	63.0	HARD
556.4	CARBONDALE	COLCHESTER	COAL	2.2	106.0	GOOD
554.2	CARBONDALE		UNDERCLAY	1.8	108.2	

MAPID: 05786727000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: FULTON **TWP/RNG:** 5N 1E **SECTION:** 36 **QUARTERS/FOOTAGES:** 660' N line, 0' W line of SE NE
QUADRANGLE: IPAVA **LONGITUDE:** -90.337673 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.372372 **DATE COLLECTED:** 10 / 23 / 1962
SURFACE ELEVATION (FT.): 604.4 **LOGGED (FT.):** 48.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE QQ148 **WELL TYPE:** Coal Test
COMMENT: IPAVA AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
604.4	PLEISTOCENE		CLAY	6.0	0.0	
598.4	CARBONDALE		SANDSTONE	6.0	6.0	SOFT
592.4	CARBONDALE		SHALE	28.0	12.0	
564.4	CARBONDALE		SHALE	5.0	40.0	SOFT
559.4	CARBONDALE	COLCHESTER	COAL	2.3	45.0	FAIR
557.1	CARBONDALE		UNDERCLAY	0.8	47.3	

MAPID: 05700021000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 5N 2E **SECTION:** 12 **QUARTERS/FOOTAGES:**
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.226115 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.429281 **DATE COLLECTED:** 8 / 9 / 1924
SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log
SOURCE: MEASLEY, CHARLES **WELL TYPE:** Dry Hole
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
505.0			UNCONSOLIDATED	25.0	0.0	
480.0	SPOON		SHALE	50.0	25.0	
430.0	SPOON	ROCK ISLAND	COAL	2.0	75.0	BASE OF SPOON
428.0	ABBOTT		SHALE	73.0	77.0	
355.0			ROCK	650.0	150.0	MISSISSIPPIAN AND OLDER

MAPID: 05700023000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 5N 2E **SECTION:** 15 **QUARTERS/FOOTAGES:** 100' S line, 1500' W line
QUADRANGLE: SMITHFIELD **LONGITUDE:** -90.26857 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.407403 **DATE COLLECTED:** 0 / 0 / 1942
SURFACE ELEVATION (FT.): 469.0 **LOGGED (FT.):** 42.0 **LOG TYPE:** Drillers Log
SOURCE: HAYES & SIMS **WELL TYPE:** Engineering Test Holes
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
469.0			UNCONSOLIDATED	42.0	0.0	
427.0	CARBONDALE	COLCHESTER	COAL	0.0	42.0	HOLE ENDED ON COAL

MAPID: 05700027000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 16 QUARTERS/FOOTAGES: 1100' S line, 1425' E line

QUADRANGLE: SMITHFIELD LONGITUDE: -90.279047 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.4101 DATE COLLECTED: 0 / 0 / 1942

SURFACE ELEVATION (FT.): 474.0 LOGGED (FT.): 39.0 LOG TYPE: Drillers Log

SOURCE: HAYES & SIMS WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
474.0			UNCONSOLIDATED	39.0	0.0	
435.0	CARBONDALE	COLCHESTER	COAL	0.0	39.0	HOLE ENDED ON COAL

MAPID: 05700029000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 18 QUARTERS/FOOTAGES: 300' S line, 2700' W line

QUADRANGLE: SMITHFIELD LONGITUDE: -90.322195 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.407715 DATE COLLECTED: 0 / 0 / 1942

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 41.0 LOG TYPE: Drillers Log

SOURCE: HAYES & SIMS WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			UNCONSOLIDATED	41.0	0.0	
434.0	CARBONDALE	COLCHESTER	COAL	0.0	41.0	HOLE ENDED ON COAL

MAPID: 05700033000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 19 QUARTERS/FOOTAGES: 1000' N line, 2700' W line

QUADRANGLE: SMITHFIELD LONGITUDE: -90.32229 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.404127 DATE COLLECTED: 0 / 0 / 1942

SURFACE ELEVATION (FT.): 471.0 LOGGED (FT.): 31.0 LOG TYPE: Drillers Log

SOURCE: HAYES & SIMS WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
471.0			UNCONSOLIDATED	31.0	0.0	
440.0	CARBONDALE	COLCHESTER	COAL	0.0	31.0	HOLE ENDED ON COAL

MAPID: 05786614000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 19 QUARTERS/FOOTAGES: SW SW

QUADRANGLE: SMITHFIELD LONGITUDE: -90.329802 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.394265 DATE COLLECTED: 4 / 3 / 1962

SURFACE ELEVATION (FT.): 584.3 LOGGED (FT.): 38.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE SS453 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
584.3	PLEISTOCENE		UNCONSOLIDATED	2.0	0.0	
582.3	CARBONDALE		SANDY SHALE	33.0	2.0	
549.3	CARBONDALE	COLCHESTER	COAL	2.0	35.0	GOOD
547.3	CARBONDALE		UNDERCLAY	1.0	37.0	

MAPID: 05786615000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 19 QUARTERS/FOOTAGES: NW SE

QUADRANGLE: SMITHFIELD LONGITUDE: -90.319728 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.397826 DATE COLLECTED: 9 / 21 / 1961

SURFACE ELEVATION (FT.): 485.3 LOGGED (FT.): 17.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE SS505 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
485.3	PLEISTOCENE		CLAY	2.0	0.0	
483.3	PLEISTOCENE		CLAY	9.0	2.0	
474.3			DARK SHALE	3.0	11.0	SOFT
471.3			COAL	1.2	14.0	SOFT
470.1			UNDERCLAY	1.8	15.2	

MAPID: 05724703000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 20 QUARTERS/FOOTAGES: 2670' N line, 35' W line
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.312074 GEOLOGIST: J. MCBETH
 CONFIDENTIAL: N LATITUDE: 40.399429 DATE COLLECTED: 5 / 27 / 1976
 SURFACE ELEVATION (FT.): 625.8 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. SS509 WELL TYPE: Coal Test
 COMMENT: PERMIT 26; SUNSPOT MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
625.8	PLEISTOCENE		SILT	1.5	0.0
624.3	PLEISTOCENE		CLAY	14.0	1.5
610.3	PLEISTOCENE		UNCONSOLIDATED	18.5	15.5
591.8	CARBONDALE	FRANCIS CREEK	GRAY SHALE	4.0	34.0
587.8	CARBONDALE	FRANCIS CREEK	SANDY SHALE	18.0	38.0
569.8	CARBONDALE	FRANCIS CREEK	GRAY SHALE	17.0	56.0
552.8	CARBONDALE	COLCHESTER	COAL	2.4	73.0
550.4	CARBONDALE		UNDERCLAY	2.6	75.4
547.8	CARBONDALE		GRAY SHALE	2.0	78.0

MAPID: 05786613000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 20 QUARTERS/FOOTAGES: 660' N line, 0' E line of SW SW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.307603 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.394178 DATE COLLECTED: 8 / 15 / 1961
 SURFACE ELEVATION (FT.): 616.2 LOGGED (FT.): 56.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE SS436 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
616.2	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0
610.2	PLEISTOCENE		CLAY	7.0	6.0
603.2	PLEISTOCENE		CLAY	7.0	13.0
596.2	CARBONDALE		SANDY SHALE	5.0	20.0
591.2	CARBONDALE		SHALE	27.0	25.0 SOFT
564.2	CARBONDALE	COLCHESTER	COAL	2.3	52.0 FAIR
561.9	CARBONDALE		UNDERCLAY	1.7	54.3

MAPID: 05786616000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 20 QUARTERS/FOOTAGES: 645' N line, 89' W line of SE NW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.307088 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.40145 DATE COLLECTED: 2 / 15 / 1979
 SURFACE ELEVATION (FT.): 615.9 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL SS536Y WELL TYPE: Coal Test
 COMMENT: SUNSPOT IPAVA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
615.9	PLEISTOCENE		CLAY	31.0	0.0	
584.9	PLEISTOCENE		CLAY	33.0	31.0	
551.9	CARBONDALE		DARK SHALE	8.0	64.0	
543.9	CARBONDALE	COLCHESTER	COAL	1.9	72.0	
542.0	CARBONDALE		UNDERCLAY	2.1	73.9	

MAPID: 05700034000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 22 QUARTERS/FOOTAGES: 2700' N line, 0' W line
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.274259 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.399648 DATE COLLECTED: 0 / 0 / 1942
 SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log
 SOURCE: HAYES & SIMS WELL TYPE: Engineering Test Holes
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0			UNCONSOLIDATED	65.0	0.0	
435.0	CARBONDALE	COLCHESTER	COAL	0.0	65.0	HOLE ENDED ON COAL

MAPID: 05700036000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 22 QUARTERS/FOOTAGES: 1100' S line, 0' E line
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.254521 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.395779 DATE COLLECTED: 0 / 0 / 1942
 SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 36.0 LOG TYPE: Drillers Log
 SOURCE: HAYES & SIMS WELL TYPE: Engineering Test Holes
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
465.0			UNCONSOLIDATED	36.0	0.0	
429.0	CARBONDALE	COLCHESTER	COAL	0.0	36.0	HOLE ENDED ON COAL

MAPID: 05700038000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 23 QUARTERS/FOOTAGES: 3230' S line, 2640' E line

QUADRANGLE: LEWISTOWN LONGITUDE: -90.245635 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.401763 DATE COLLECTED: 0 / 0 / 1942

SURFACE ELEVATION (FT.): 505.0 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: HAYES & SIMS WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
505.0			UNCONSOLIDATED	90.0	0.0	
415.0	CARBONDALE	COLCHESTER	COAL	0.0	90.0	HOLE ENDED ON COAL

MAPID: 05786491000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 26 QUARTERS/FOOTAGES: 1' S line, 660' E line of SE SW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.248108 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.378348 DATE COLLECTED: 11 / 15 / 1960

SURFACE ELEVATION (FT.): 548.0 LOGGED (FT.): 35.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE NN212 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
548.0	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
539.0	PLEISTOCENE		CLAY	12.0	9.0	
527.0	CARBONDALE		SANDY SHALE	10.0	21.0	
517.0	CARBONDALE	COLCHESTER	COAL	2.4	31.0	GOOD
514.6	CARBONDALE		UNDERCLAY	1.6	33.4	

MAPID: 05786492000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 27 QUARTERS/FOOTAGES: 1' N line, 1' W line of SW SE

QUADRANGLE: SMITHFIELD LONGITUDE: -90.264725 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.381779 DATE COLLECTED: 11 / 24 / 1961

SURFACE ELEVATION (FT.): 593.2 LOGGED (FT.): 69.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE NN255 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
593.2	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
585.2	PLEISTOCENE		CLAY	9.0	8.0	
576.2	PLEISTOCENE		CLAY	33.0	17.0	
543.2	CARBONDALE		SHALE	15.0	50.0	HARD
528.2	CARBONDALE	COLCHESTER	COAL	2.3	65.0	GOOD
525.9	CARBONDALE		UNDERCLAY	1.8	67.3	

MAPID: 05786712000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 27 QUARTERS/FOOTAGES: 710' N line, 790' W line of NE SE

QUADRANGLE: SMITHFIELD LONGITUDE: -90.256864 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.383535 DATE COLLECTED: 5 / 10 / 1961

SURFACE ELEVATION (FT.): 589.9 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE NN383 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
589.9	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
582.9	PLEISTOCENE		CLAY	14.0	7.0	
568.9	PLEISTOCENE		SAND & GRAVEL	5.0	21.0	
563.9	PLEISTOCENE		CLAY	38.0	26.0	
525.9	PLEISTOCENE		SAND & GRAVEL	6.0	64.0	
519.9	CARBONDALE		GRAY SHALE	2.5	70.0	
517.4	CARBONDALE	COLCHESTER	COAL	0.5	72.5	SOFT
516.9	CARBONDALE		UNDERCLAY	5.0	73.0	
511.9	CARBONDALE		GRAY SANDSTONE	4.0	78.0	
507.9	CARBONDALE		GRAY SHALE	4.0	82.0	

MAPID: 05786691000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 28 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SW

QUADRANGLE: SMITHFIELD LONGITUDE: -90.289001 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.377843 DATE COLLECTED: 8 / 25 / 1961

SURFACE ELEVATION (FT.): 611.3 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE SS219 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
611.3	PLEISTOCENE		CLAY	13.0	0.0	
598.3	PLEISTOCENE		CLAY	18.0	13.0	
580.3	PLEISTOCENE		CLAY	25.0	31.0	
555.3	CARBONDALE		DARK SHALE	8.0	56.0	SOFT
547.3	CARBONDALE	COLCHESTER	COAL	2.4	64.0	GOOD
544.9	CARBONDALE		UNDERCLAY	1.6	66.4	

MAPID: 05786692000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 29 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.312629 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.381434 DATE COLLECTED: 10 / 24 / 1962
 SURFACE ELEVATION (FT.): 629.9 LOGGED (FT.): 83.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE SS259 WELL TYPE: Coal Test
 COMMENT: IPAVA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.9	PLEISTOCENE		CLAY	13.0	0.0	
616.9	PLEISTOCENE		SAND & GRAVEL	30.0	13.0	
586.9	CARBONDALE		SANDY SHALE	36.0	43.0	
550.9	CARBONDALE	COLCHESTER	COAL	2.2	79.0	GOOD
548.7	CARBONDALE		UNDERCLAY	1.8	81.2	

MAPID: 05786693000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 29 QUARTERS/FOOTAGES: 660' N line, 660' W line of SE SE
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.296064 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.37962 DATE COLLECTED: 11 / 6 / 1962
 SURFACE ELEVATION (FT.): 621.6 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE SS241 WELL TYPE: Coal Test
 COMMENT: IPAVA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.6	PLEISTOCENE		CLAY	12.0	0.0	
609.6	PLEISTOCENE		CLAY	11.0	12.0	
598.6	PLEISTOCENE		CLAY	23.0	23.0	
575.6	CARBONDALE		SANDY SHALE	11.0	46.0	
564.6	CARBONDALE		SANDY SHALE	14.0	57.0	SOFT
550.6	CARBONDALE		SHALE	5.0	71.0	
545.6	CARBONDALE	COLCHESTER	COAL	2.3	76.0	GOOD
543.3	CARBONDALE		UNDERCLAY	1.7	78.3	

MAPID: 05786696000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 29 QUARTERS/FOOTAGES: 660' S line, 660' E line of NW NW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.310072 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.390552 DATE COLLECTED: 10 / 25 / 1962
 SURFACE ELEVATION (FT.): 595.5 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE SS385 WELL TYPE: Coal Test
 COMMENT: N. IPAVA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
595.5	PLEISTOCENE		CLAY	6.0	0.0	
589.5	PLEISTOCENE		CLAY	11.0	6.0	
578.5	PLEISTOCENE		CLAY	26.0	17.0	
552.5	CARBONDALE		SHALE	7.0	43.0	SOFT
545.5	CARBONDALE	COLCHESTER	COAL	0.8	50.0	SOFT
544.7	CARBONDALE		UNDERCLAY	1.2	50.8	
543.5	CARBONDALE		MICACEOUS SHALE	2.0	52.0	
541.5	CARBONDALE		LIMESTONE	1.0	54.0	

MAPID: 05724704000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 30 QUARTERS/FOOTAGES: 547' N line, 510' E line
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.314269 GEOLOGIST: J. MCBETH
 CONFIDENTIAL: N LATITUDE: 40.390868 DATE COLLECTED: 11 / 21 / 1977
 SURFACE ELEVATION (FT.): 619.3 LOGGED (FT.): 71.6 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. SS383ND WELL TYPE: Coal Test
 COMMENT: PERMIT 26; SUNSPOT MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
619.3	PLEISTOCENE		SANDY CLAY	41.5	0.0	
577.8	CARBONDALE		GRAY SHALE	4.2	41.5	
573.6	CARBONDALE	FRANCIS CREEK	SANDSTONE	10.7	45.7	
562.9	CARBONDALE	FRANCIS CREEK	GRAY SHALE	0.6	56.4	
562.3	CARBONDALE	FRANCIS CREEK	SANDSTONE	5.1	57.0	
557.2	CARBONDALE	FRANCIS CREEK	SHALE	0.9	62.1	DARK GRAY
556.3	CARBONDALE	COLCHESTER	COAL	2.6	63.0	
553.7	CARBONDALE		UNDERCLAY	1.0	65.6	
552.7	CARBONDALE		GRAY SHALE	5.0	66.6	

MAPID: 05724705000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 30 QUARTERS/FOOTAGES: 330' S line, 2625' W line
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.323208 GEOLOGIST: J. MCBETH
 CONFIDENTIAL: N LATITUDE: 40.378707 DATE COLLECTED: 6 / 2 / 1976
 SURFACE ELEVATION (FT.): 621.5 LOGGED (FT.): 69.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. SS205W WELL TYPE: Coal Test
 COMMENT: PERMIT 26; SUNSPOT MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.5	PLEISTOCENE		SILT	1.5	0.0	
620.0	PLEISTOCENE		CLAY	14.0	1.5	
606.0	PLEISTOCENE		UNCONSOLIDATED	22.0	15.5	
584.0	CARBONDALE	FRANCIS CREEK	GRAY SHALE	6.5	37.5	
577.5	CARBONDALE	FRANCIS CREEK	SANDY SHALE	20.0	44.0	
557.5	CARBONDALE	COLCHESTER	COAL	2.2	64.0	
555.3	CARBONDALE		UNDERCLAY	2.8	66.2	

MAPID: 05786690000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 30 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.327701 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.377798 DATE COLLECTED: 9 / 20 / 1961
 SURFACE ELEVATION (FT.): 606.0 LOGGED (FT.): 56.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE SS203 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
606.0	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
600.0	CARBONDALE		SHALE	15.0	6.0	SOFT
585.0	CARBONDALE		SANDY SHALE	31.0	21.0	HARD
554.0	CARBONDALE	COLCHESTER	COAL	2.0	52.0	GOOD
552.0	CARBONDALE		BLACK SHALE	0.3	54.0	VERY HARD
551.7	CARBONDALE		UNDERCLAY	1.8	54.3	

MAPID: 05786695000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 30 QUARTERS/FOOTAGES: 660' S line, 660' E line of NW NW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.329784 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.390609 DATE COLLECTED: 1 / 13 / 1961
 SURFACE ELEVATION (FT.): 644.3 LOGGED (FT.): 93.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE SS377 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.3	PLEISTOCENE		CLAY	7.0	0.0	
637.3	PLEISTOCENE		CLAY	10.0	7.0	
627.3	PLEISTOCENE		CLAY	14.0	17.0	
613.3	CARBONDALE		SANDY SHALE	58.0	31.0	
555.3	CARBONDALE	COLCHESTER	COAL	1.9	89.0	GOOD
553.4	CARBONDALE		MICACEOUS SHALE	2.1	90.9	HARD

MAPID: 05724706000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 31 QUARTERS/FOOTAGES: 1500' S line, 35' E line
 QUADRANGLE: IPAVA LONGITUDE: -90.312819 GEOLOGIST: J. MCBETH
 CONFIDENTIAL: N LATITUDE: 40.367459 DATE COLLECTED: 6 / 3 / 1976
 SURFACE ELEVATION (FT.): 629.0 LOGGED (FT.): 89.0 LOG TYPE: Drillers Log
 SOURCE: AMAX COAL CO. SS59J WELL TYPE: Coal Test
 COMMENT: PERMIT 26; SUNSPOT MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.0	PLEISTOCENE		SILT	1.5	0.0	
627.5	PLEISTOCENE		CLAY	10.0	1.5	
617.5	PLEISTOCENE		UNCONSOLIDATED	27.5	11.5	
590.0	CARBONDALE	FRANCIS CREEK	SANDY SHALE	30.0	39.0	
560.0	CARBONDALE	FRANCIS CREEK	GRAY SHALE	4.5	69.0	
555.5	CARBONDALE	FRANCIS CREEK	SANDY SHALE	3.0	73.5	
552.5	CARBONDALE	FRANCIS CREEK	GRAY SHALE	3.5	76.5	
549.0	CARBONDALE	COLCHESTER	COAL	2.2	80.0	
546.8	CARBONDALE		UNDERCLAY	1.8	82.2	
545.0	CARBONDALE		GRAY SHALE	5.0	84.0	

MAPID: 05786671000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 31 QUARTERS/FOOTAGES: 660' S line, 0' W line of SW SW
 QUADRANGLE: IPAVA LONGITUDE: -90.333008 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.365112 DATE COLLECTED: 4 / 10 / 1962
 SURFACE ELEVATION (FT.): 621.9 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE SS26 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.9	PLEISTOCENE		CLAY	7.0	0.0	
614.9	PLEISTOCENE		CLAY	7.0	7.0	
607.9	PLEISTOCENE		CLAY	11.0	14.0	
596.9	CARBONDALE		SANDY SHALE	35.0	25.0	
561.9	CARBONDALE		SHALE	9.0	60.0	SOFT
552.9	CARBONDALE	COLCHESTER	COAL	1.9	69.0	GOOD
551.0	CARBONDALE		UNDERCLAY	1.1	70.9	

MAPID: 05786672000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 31 QUARTERS/FOOTAGES: 0' S line, 0' E line of SE SE
 QUADRANGLE: IPAVA LONGITUDE: -90.312688 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.363321 DATE COLLECTED: 5 / 8 / 1961
 SURFACE ELEVATION (FT.): 593.1 LOGGED (FT.): 45.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE SS9 WELL TYPE: Coal Test
 COMMENT: CAMP ELLIS AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
593.1	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
585.1	CARBONDALE		SHALE	82.0	8.0	
503.1	CARBONDALE		SHALE	2.0	90.0	SOFT
501.1	CARBONDALE	COLCHESTER	COAL	2.2	92.0	GOOD
498.9	CARBONDALE		UNDERCLAY	0.8	94.2	

MAPID: 05786694000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 31 QUARTERS/FOOTAGES: 0' N line, 0' E line of NE NE
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.312705 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.377791 DATE COLLECTED: 5 / 8 / 1961
 SURFACE ELEVATION (FT.): 624.7 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE SS209 WELL TYPE: Coal Test
 COMMENT: S. MARIETTA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
624.7	PLEISTOCENE		CLAY	18.0	0.0	
606.7	PLEISTOCENE		CLAY	14.0	18.0	
592.7	CARBONDALE		SANDY SHALE	24.0	32.0	
568.7	CARBONDALE		SHALE	29.0	56.0	SOFT
539.7	CARBONDALE	COLCHESTER	COAL	2.2	85.0	GOOD
537.5	CARBONDALE		UNDERCLAY	0.8	87.2	

MAPID: 05786669000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 32 QUARTERS/FOOTAGES: 0' S line, 0' W line of SW SE
 QUADRANGLE: IPAVA LONGITUDE: -90.303208 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.363374 DATE COLLECTED: 8 / 29 / 1961
 SURFACE ELEVATION (FT.): 622.6 LOGGED (FT.): 84.1 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE SS13 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.6	PLEISTOCENE		CLAY	7.0	0.0	
615.6	PLEISTOCENE		CLAY	9.0	7.0	
606.6	PLEISTOCENE		CLAY	11.0	16.0	
595.6	CARBONDALE		SHALE	55.0	27.0	HARD
540.6	CARBONDALE	COLCHESTER	COAL	2.1	82.0	GOOD
538.5	CARBONDALE		UNDERCLAY	1.9	84.1	

MAPID: 05786673000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 32 QUARTERS/FOOTAGES: 0' N line, 810' E line of SW SW
 QUADRANGLE: IPAVA LONGITUDE: -90.310876 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.366945 DATE COLLECTED: 10 / 3 / 1962
 SURFACE ELEVATION (FT.): 621.7 LOGGED (FT.): 94.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE SS60 WELL TYPE: Coal Test
 COMMENT: IPAVA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.7	PLEISTOCENE		CLAY	9.0	0.0	
612.7	PLEISTOCENE		CLAY	26.0	9.0	
586.7			SANDY SHALE	25.0	35.0	
561.7			MICACEOUS SHALE	7.0	60.0	SOFT
554.7			SHALE	5.0	67.0	HARD
549.7	CARBONDALE		COAL	2.3	72.0	GOOD
547.4			UNDERCLAY	1.7	74.3	
545.7			SHALE	7.0	76.0	WHITE, SOFT
538.7			SANDY SHALE	7.0	83.0	SOFT
531.7			COAL	0.8	90.0	GOOD
530.9			MICACEOUS SHALE	2.2	90.8	SOFT
528.7			LIMESTONE	1.0	93.0	

MAPID: 05786670000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 33 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SW
 QUADRANGLE: IPAVA LONGITUDE: -90.289018 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.363456 DATE COLLECTED: 9 / 29 / 1961
 SURFACE ELEVATION (FT.): 597.7 LOGGED (FT.): 84.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE SS19 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
597.7	PLEISTOCENE		CLAY	9.0	0.0	
588.7	PLEISTOCENE		CLAY	12.0	9.0	
576.7	PLEISTOCENE		CLAY	17.0	21.0	
559.7	CARBONDALE		SANDY SHALE	17.0	38.0	
542.7	CARBONDALE		LIMESTONE	2.0	55.0	
540.7	CARBONDALE		SHALE	12.0	57.0	WHITE, HARD
528.7	CARBONDALE		SHALE	11.0	69.0	SOFT
517.7	CARBONDALE	COLCHESTER	COAL	2.3	80.0	
515.4	CARBONDALE		UNDERCLAY	1.7	82.3	GOOD

MAPID: 05786488000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 34 QUARTERS/FOOTAGES: 1' S line, 1' W line of SE SW

QUADRANGLE: IPAVA LONGITUDE: -90.270008 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.363578 DATE COLLECTED: 9 / 8 / 1961

SURFACE ELEVATION (FT.): 604.6 LOGGED (FT.): 95.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE NN5 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
604.6	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
593.6	PLEISTOCENE		CLAY	10.0	11.0	
583.6	PLEISTOCENE		CLAY	14.0	21.0	
569.6	CARBONDALE		SANDSTONE	56.0	35.0	
513.6	CARBONDALE	COLCHESTER	COAL	2.0	91.0	GOOD; TOP POSSIBLY ERODED
511.6	CARBONDALE		UNDERCLAY	2.0	93.0	

MAPID: 05786709000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 34 QUARTERS/FOOTAGES: 660' S line, 660' W line of SW SE

QUADRANGLE: IPAVA LONGITUDE: -90.26272 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.365449 DATE COLLECTED: 9 / 11 / 1961

SURFACE ELEVATION (FT.): 592.7 LOGGED (FT.): 77.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE NN31 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
592.7	PLEISTOCENE		UNCONSOLIDATED	14.0	0.0	
578.7	CARBONDALE		SANDSTONE	30.0	14.0	SOFT
548.7	CARBONDALE		SANDSTONE	11.0	44.0	
537.7	CARBONDALE		SANDY SHALE	18.0	55.0	HARD
519.7	CARBONDALE	COLCHESTER	COAL	2.3	73.0	GOOD
517.4	CARBONDALE		UNDERCLAY	1.7	75.3	

MAPID: 05786711000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 34 QUARTERS/FOOTAGES: 660' S line, 660' W line of SW NE

QUADRANGLE: IPA VA LONGITUDE: -90.26254 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.372732 DATE COLLECTED: 11 / 23 / 1961

SURFACE ELEVATION (FT.): 582.8 LOGGED (FT.): 51.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE NN131 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
582.8	PLEISTOCENE		CLAY	6.0	0.0	
576.8	PLEISTOCENE		CLAY	4.0	6.0	
572.8	PLEISTOCENE		CLAY	14.0	10.0	
558.8	CARBONDALE		SHALE	8.0	24.0	HARD
550.8	CARBONDALE		BLACK SHALE	1.0	32.0	
549.8	CARBONDALE		SHALE	14.0	33.0	HARD
535.8	CARBONDALE	COLCHESTER	COAL	2.3	47.0	FAIR
533.5	CARBONDALE		UNDERCLAY	1.7	49.3	

MAPID: 05786489000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 35 QUARTERS/FOOTAGES: 690' N line, 660' W line of SE SW

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.248335 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.36559 DATE COLLECTED: 5 / 10 / 1961

SURFACE ELEVATION (FT.): 550.6 LOGGED (FT.): 44.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE NN37 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.6	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0	
535.6	PLEISTOCENE		CLAY	6.0	15.0	
529.6	CARBONDALE		GRAY SHALE	6.0	21.0	
523.6	CARBONDALE		SANDSTONE	4.0	27.0	
519.6	CARBONDALE		SANDY SHALE	8.7	31.0	HARD
510.9	CARBONDALE	COLCHESTER	COAL	2.3	39.7	FAIR
508.6	CARBONDALE		UNDERCLAY	2.0	42.0	

MAPID: 05786710000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 35 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW SE

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.241343 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.371238 DATE COLLECTED: 8 / 7 / 1961

SURFACE ELEVATION (FT.): 585.3 LOGGED (FT.): 96.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE NN115 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.3	PLEISTOCENE		UNCONSOLIDATED	13.0	0.0	
572.3	PLEISTOCENE		CLAY	11.0	13.0	
561.3	PLEISTOCENE		SAND & GRAVEL	44.0	24.0	
517.3	CARBONDALE		SANDY SHALE	24.0	68.0	
493.3	CARBONDALE	COLCHESTER	COAL	2.6	92.0	GOOD
490.7	CARBONDALE		UNDERCLAY	1.4	94.6	

MAPID: 05786490000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 2E SECTION: 36 QUARTERS/FOOTAGES: 660' S line, 660' E line of SW SW

QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.234491 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.366035 DATE COLLECTED: 8 / 10 / 1961

SURFACE ELEVATION (FT.): 557.2 LOGGED (FT.): 44.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE NN43 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
557.2	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0	
545.2	PLEISTOCENE		CLAY	8.0	12.0	
537.2	PLEISTOCENE		CLAY	4.0	20.0	
533.2	CARBONDALE		SHALE	16.0	24.0	HARD
517.2	CARBONDALE	COLCHESTER	COAL	2.3	40.0	FAIR
514.9	CARBONDALE		UNDERCLAY	1.7	42.3	

MAPID: 05700040000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 2 QUARTERS/FOOTAGES: NE NE NE NE

QUADRANGLE: ST. DAVID LONGITUDE: -90.124522 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.450896 DATE COLLECTED: 2 / 20 / 1915

SURFACE ELEVATION (FT.): 614.0 LOGGED (FT.): 255.4 LOG TYPE: Drillers Log

SOURCE: SCRIPPS, WM. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
614.0			UNCONSOLIDATED	40.7	0.0	
573.3	CARBONDALE		SHALE	4.8	40.7	
568.6	CARBONDALE	HOUCHIN CREEK	COAL	5.2	45.4	"BLOSSOM"
563.4	CARBONDALE		SANDSTONE	45.2	50.6	
518.2	CARBONDALE	PURINGTON	SANDY SHALE	2.0	95.8	
516.2	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.5	97.8	FISSILE
514.7	CARBONDALE	FRANCIS CREEK	SHALE	23.1	99.3	SDY TOP 6.5 FT
491.7	CARBONDALE	COLCHESTER	COAL	2.6	122.3	BASE OF CARBONDALE
489.1	SPOON		UNDERCLAY	4.7	124.9	
484.4	SPOON		SANDSTONE	7.4	129.6	
477.0	SPOON		SHALE	2.0	137.0	
475.0	SPOON		SANDSTONE	1.9	139.0	
473.1	SPOON		LIMESTONE	2.1	140.9	"BLDR RK"
471.0	SPOON		SHALE	2.8	143.0	
468.2	SPOON	WILEY	COAL	0.5	145.8	
467.7	SPOON		SHALE	1.5	146.3	
466.2	SPOON		SANDY SHALE	6.6	147.8	
459.6	SPOON		SANDSTONE	2.2	154.4	
457.4	SPOON		SANDY SHALE	2.5	156.6	
454.9	SPOON		BLACK SHALE	1.4	159.1	FISSILE
453.5	SPOON	DELONG	UNDERCLAY	6.0	160.5	DE LONG COAL HORIZON, SDY
447.5	SPOON		SHALE	2.8	166.5	
444.7	SPOON		SANDY SHALE	1.7	169.3	
443.0	SPOON		SANDSTONE	4.4	171.0	
438.6	SPOON		SHALE	0.5	175.4	DARK
438.1	SPOON		SANDSTONE	6.4	175.9	
431.6	SPOON		BLACK SHALE	6.9	182.4	FISSILE
424.7	SPOON	SEVILLE	LIMESTONE	0.7	189.3	
424.1	SPOON	ROCK ISLAND	COAL	0.7	189.9	
423.4	SPOON		SHALE	1.2	190.6	BS SPOON, SDY
422.2	ABBOTT	BERNADOTTE	SANDSTONE	28.1	191.8	
394.1	ABBOTT		SHALE	0.8	219.9	GY,FIS
393.4	ABBOTT		SANDSTONE	1.7	220.6	
391.7	ABBOTT		SHALE	3.8	222.3	GY,FIS
388.0	ABBOTT		LIMESTONE	0.5	226.0	
387.5	ABBOTT		SHALE	9.7	226.5	GY,FIS
377.8	ABBOTT		SANDY SHALE	1.8	236.2	
376.0	ABBOTT		SHALE	12.8	238.0	GY,FIS
363.3	ABBOTT		SANDSTONE	0.4	250.7	

362.9	ABBOTT		BLACK SHALE	3.0	251.1	FISSILE
359.9	ABBOTT	MANLEY	UNDERCLAY	1.1	254.1	MANLEY COAL HORIZON, SDY
358.8	ABBOTT	BABYLON	SANDSTONE	0.2	255.2	

MAPID: 05700041000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 2 QUARTERS/FOOTAGES: 0' S line, 0' E line of NW NW NW NW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.141489 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.450373 DATE COLLECTED: 3 / 0 / 1915

SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 255.6 LOG TYPE: Drillers Log

SOURCE: SCRIPPS, WM. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.0			UNCONSOLIDATED	42.7	0.0	
567.3	CARBONDALE		SHALE	4.1	42.7	
563.2	CARBONDALE	HOUCHIN CREEK	COAL	2.6	46.8	
560.7	CARBONDALE		SHALE	10.7	49.3	"MIXED"
550.0	CARBONDALE	PLEASANTVIEW	SANDSTONE	13.8	60.0	
536.2	CARBONDALE	PURINGTON	SHALE	17.7	73.8	
518.5	CARBONDALE	OAK GROVE	LIMESTONE	2.5	91.5	
516.0	CARBONDALE	FRANCIS CREEK	SANDY SHALE	26.9	94.0	
489.1	CARBONDALE	COLCHESTER	COAL	2.4	120.9	BASE OF CARBONDALE
486.7	SPOON		UNDERCLAY	2.0	123.3	
484.7	SPOON		SANDY SHALE	3.0	125.3	
481.7	SPOON		SANDSTONE	7.7	128.3	
474.0	SPOON		SHALE	2.0	136.0	
472.0	SPOON		LIMESTONE	2.5	138.0	
469.5	SPOON		SHALE	2.0	140.5	
467.5	SPOON		SHALE	0.8	142.5	DARK
466.7	SPOON	WILEY	COAL	0.3	143.3	
466.5	SPOON		UNDERCLAY	3.6	143.5	SDY
462.9	SPOON		SANDSTONE	9.3	147.1	
453.7	SPOON		SHALE	1.2	156.3	
452.5	SPOON		BLACK SHALE	0.8	157.5	FISSILE
451.7	SPOON		SANDY SHALE	21.7	158.3	
430.0	SPOON		LIMESTONE	0.5	180.0	
429.5	SPOON		SHALE	5.3	180.5	GY, FIS
424.2	SPOON		SANDSTONE	1.3	185.8	
422.8	SPOON		ROCK	0.2	187.2	"FALSE TOP"
422.7	SPOON	ROCK ISLAND	COAL	0.7	187.3	
422.0	SPOON		UNDERCLAY	4.2	188.0	BS SPOON, SDY
417.8	ABBOTT		SANDY SHALE	11.7	192.2	
406.1	ABBOTT		LIMESTONE	0.4	203.9	
405.7	ABBOTT		SANDY SHALE	7.4	204.3	
398.3	ABBOTT	POPE CREEK	COAL	0.8	211.7	
397.5	ABBOTT		UNDERCLAY	2.0	212.5	SDY
395.5	ABBOTT		BLACK SHALE	7.2	214.5	FISSILE
388.3	ABBOTT	TARTER	COAL	0.6	221.7	
387.7	ABBOTT		SHALE	6.8	222.3	
381.0	ABBOTT		SANDY SHALE	3.4	229.0	
377.6	ABBOTT		SANDSTONE	0.8	232.4	
376.8	ABBOTT		LIMESTONE	1.0	233.2	BLUE

375.8	ABBOTT		SANDSTONE	2.0	234.2	
373.8	ABBOTT		SHALE	5.9	236.2	GY,FIS
367.9	ABBOTT		LIMESTONE	0.8	242.1	BLUE
367.1	ABBOTT		SHALE	11.2	242.9	GY,FIS
356.0	ABBOTT		SHALE	1.3	254.0	
354.7	ABBOTT	MANLEY	UNDERCLAY	0.3	255.3	MANLEY COAL HORIZON, SDY

MAPID: 05700042000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 5N 3E **SECTION:** 5 **QUARTERS/FOOTAGES:** NE NE
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.182643 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.449355 **DATE COLLECTED:** 4 / 0 / 1915
SURFACE ELEVATION (FT.): 510.0 **LOGGED (FT.):** 221.0 **LOG TYPE:** Drillers Log
SOURCE: SCRIPPS, WM. **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
510.0			UNCONSOLIDATED	10.0	0.0	SDY CL
500.0	CARBONDALE		SHALE	9.0	10.0	LIGHT GRAY
491.0	CARBONDALE	COLCHESTER	COAL	0.5	19.0	BASE OF CARBONDALE
490.5	SPOON		UNDERCLAY	6.5	19.5	
484.0	SPOON		SANDSTONE	8.7	26.0	
475.3	SPOON	WILEY	COAL	0.3	34.7	
475.0	SPOON		UNDERCLAY	7.4	35.0	
467.6	SPOON		SHALE	14.3	42.4	
453.2	SPOON	DELONG	COAL	3.1	56.8	
450.2	SPOON		UNDERCLAY	2.7	59.8	
447.5	SPOON		SANDSTONE	1.2	62.5	
446.3	SPOON		SANDY SHALE	0.5	63.7	
445.8	SPOON	HERMON	COAL	2.0	64.2	
443.8	SPOON		UNDERCLAY	0.5	66.2	
443.3	SPOON		SANDSTONE	5.5	66.7	
437.8	SPOON	SEVILLE	LIMESTONE	0.7	72.2	BRN BLDG.PROB LS
437.2	SPOON		SHALE	9.7	72.8	
427.5	SPOON	ROCK ISLAND	COAL	2.2	82.5	
425.3	SPOON		UNDERCLAY	9.0	84.7	BASE OF SPOON
416.3	ABBOTT		SHALE	13.8	93.7	
402.5	ABBOTT		SANDSTONE	5.6	107.5	BASE OF PENNSYLVANIAN
396.9			ROCK	107.9	113.1	MISSISSIPPIAN

MAPID: 05700043000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 8 QUARTERS/FOOTAGES: SE SW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.192173 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.423837 DATE COLLECTED: 3 / 0 / 1915

SURFACE ELEVATION (FT.): 485.0 LOGGED (FT.): 170.0 LOG TYPE: Drillers Log

SOURCE: SCRIPPS, WM. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
485.0			UNCONSOLIDATED	12.8	0.0	
472.2	SPOON		SHALE	23.3	12.8	
449.0	SPOON		SANDSTONE	14.3	36.0	
434.7	SPOON	ROCK ISLAND	COAL	1.1	50.3	
433.6	SPOON		UNDERCLAY	1.8	51.4	BASE OF SPOON
431.8	ABBOTT	BERNADOTTE	SANDSTONE	21.5	53.2	
410.3	ABBOTT	POPE CREEK	COAL	2.5	74.7	SS W/ STKS COAL
407.8	ABBOTT		UNDERCLAY	2.7	77.2	
405.1	ABBOTT		SHALE	15.5	79.9	
389.6	ABBOTT		SANDSTONE	7.5	95.4	BASE OF PENNSYLVANIAN
382.1			ROCK	67.1	102.9	MISSISSIPPIAN

MAPID: 05700044000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 18 QUARTERS/FOOTAGES: NE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.203996 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.41836 DATE COLLECTED:

SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 105.4 LOG TYPE: Drillers Log

SOURCE: SCRIPPS, WM. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
480.0			UNCONSOLIDATED	12.0	0.0	
468.0	CARBONDALE		SHALE	1.2	12.0	
466.8	CARBONDALE	HOUCHIN CREEK	COAL	0.5	13.2	
466.3	CARBONDALE		SHALE	32.3	13.7	"MIXED"
434.0	CARBONDALE	PLEASANTVIEW	SANDSTONE	27.4	46.0	
406.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	11.6	73.5	BK.FIS.7.08-FT SS PTG IN MDL
395.0	CARBONDALE	JAKE CREEK	SANDSTONE	6.2	85.0	
388.8	CARBONDALE	COLCHESTER	COAL WITH SHALE PARTINGS	8.4	91.2	BS CARBONDALE, 1.75 + 3.08 FT SH PTGS
380.4	SPOON		SHALE	0.9	99.6	"MIXED"
379.6	SPOON	ISABEL	SANDSTONE	5.0	100.4	

MAPID: 05786986000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 18 QUARTERS/FOOTAGES: SE SE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.2018 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.409275 DATE COLLECTED: 10 / 27 / 1961

SURFACE ELEVATION (FT.): 591.2 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE AK59 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 90

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
591.2	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
585.2	PLEISTOCENE		CLAY	17.0	6.0	
568.2	PLEISTOCENE		CLAY	18.0	23.0	
550.2	CARBONDALE		SANDY SHALE	14.0	41.0	
536.2	CARBONDALE		SANDSTONE	29.0	55.0	
507.2	CARBONDALE		SHALE	2.0	84.0	
505.2	CARBONDALE	COLCHESTER	COAL	2.4	86.0	GOOD
502.8	CARBONDALE		UNDERCLAY	1.6	88.4	

MAPID: 05786889000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 24 QUARTERS/FOOTAGES: SE SE

QUADRANGLE: ST. DAVID LONGITUDE: -90.107787 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.395066 DATE COLLECTED: 10 / 9 / 1961

SURFACE ELEVATION (FT.): 583.1 LOGGED (FT.): 101.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 22473 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
583.1	PLEISTOCENE		UNCONSOLIDATED	14.0	0.0	
569.1	PLEISTOCENE		CLAY	15.0	14.0	
554.1	PLEISTOCENE		CLAY	7.0	29.0	
547.1	CARBONDALE		SANDY SHALE	39.0	36.0	VERY HARD
508.1	CARBONDALE		SANDY SHALE	22.0	75.0	
486.1	CARBONDALE	COLCHESTER	COAL	2.5	97.0	GOOD
483.6	CARBONDALE		UNDERCLAY	1.5	99.5	

MAPID: 05786890000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 24 QUARTERS/FOOTAGES: NW SW

QUADRANGLE: ST. DAVID LONGITUDE: -90.121894 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.398702 DATE COLLECTED: 10 / 9 / 1961

SURFACE ELEVATION (FT.): 596.2 LOGGED (FT.): 114.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 22519 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
596.2	PLEISTOCENE		CLAY	11.0	0.0
585.2	PLEISTOCENE		CLAY	13.0	11.0
572.2	PLEISTOCENE		CLAY	8.0	24.0
564.2	CARBONDALE		SHALE	78.0	32.0
486.2	CARBONDALE	COLCHESTER	COAL	2.4	110.0
483.8	CARBONDALE		UNDERCLAY	1.6	112.4

MAPID: 05786891000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 24 QUARTERS/FOOTAGES: 850' S line, 0' W line of SW NE

QUADRANGLE: ST. DAVID LONGITUDE: -90.114813 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.402841 DATE COLLECTED: 10 / 9 / 1961

SURFACE ELEVATION (FT.): 583.5 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 22548C WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
583.5	PLEISTOCENE		CLAY	6.0	0.0
577.5	PLEISTOCENE		CLAY	9.0	6.0
568.5	PLEISTOCENE		CLAY	15.0	15.0
553.5	CARBONDALE		DARK SHALE	74.0	30.0
479.5	CARBONDALE	COLCHESTER	COAL	2.4	104.0 GOOD
477.1	CARBONDALE		UNDERCLAY	1.6	106.4

MAPID: 05786582000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 25 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SW
 QUADRANGLE: ST. DAVID LONGITUDE: -90.124251 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.378681 DATE COLLECTED: 3 / 29 / 1961
 SURFACE ELEVATION (FT.): 560.1 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE ZZ217 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.1	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
551.1	PLEISTOCENE		CLAY	12.0	9.0	
539.1	PLEISTOCENE		CLAY	9.0	21.0	
530.1	CARBONDALE		SANDY SHALE	33.0	30.0	DARK
497.1	CARBONDALE	COLCHESTER	COAL	2.4	63.0	GOOD
494.7	CARBONDALE		UNDERCLAY	1.6	65.4	

MAPID: 05786883000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 25 QUARTERS/FOOTAGES: 660' S line, 0' E line of NW SE
 QUADRANGLE: ST. DAVID LONGITUDE: -90.110209 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.384071 DATE COLLECTED: 3 / 16 / 1961
 SURFACE ELEVATION (FT.): 570.1 LOGGED (FT.): 79.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 22296 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.1	PLEISTOCENE		CLAY	15.0	0.0	
555.1	PLEISTOCENE		CLAY	10.0	15.0	
545.1	PLEISTOCENE		CLAY	10.0	25.0	
535.1	CARBONDALE		SHALE	40.0	35.0	HARD
495.1	CARBONDALE	COLCHESTER	COAL	2.4	75.0	GOOD
492.7	CARBONDALE		UNDERCLAY	1.6	77.4	

MAPID: 05786886000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 25 QUARTERS/FOOTAGES: NW SW

QUADRANGLE: ST. DAVID LONGITUDE: -90.121926 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.384135 DATE COLLECTED: 3 / 17 / 1961

SURFACE ELEVATION (FT.): 549.1 LOGGED (FT.): 48.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 22319 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
549.1	PLEISTOCENE		CLAY	5.0	0.0	
544.1	PLEISTOCENE		CLAY	2.0	5.0	
542.1	PLEISTOCENE		CLAY	2.0	7.0	
540.1	CARBONDALE		SHALE	35.0	9.0	
505.1	CARBONDALE	COLCHESTER	COAL	2.3	44.0	GOOD
502.8	CARBONDALE		UNDERCLAY	1.8	46.3	

MAPID: 05786581000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 26 QUARTERS/FOOTAGES: 1' S line, 660' E line of SW SW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.141047 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.378625 DATE COLLECTED: 11 / 10 / 1961

SURFACE ELEVATION (FT.): 559.1 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE ZZ210 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
559.1	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
552.1	PLEISTOCENE		CLAY	12.0	7.0	
540.1	PLEISTOCENE		CLAY	12.0	19.0	
528.1	CARBONDALE		SANDY SHALE	33.0	31.0	
495.1	CARBONDALE		SHALE	4.0	64.0	SOFT
491.1	CARBONDALE	COLCHESTER	COAL	2.4	68.0	GOOD
488.7	CARBONDALE		UNDERCLAY	1.6	70.4	

MAPID: 05786885000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 26 QUARTERS/FOOTAGES: NW SW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.140989 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.384061 DATE COLLECTED: 7 / 12 / 1961

SURFACE ELEVATION (FT.): 523.9 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 22309 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
523.9	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
517.9	PLEISTOCENE		SAND & GRAVEL	8.0	6.0	
509.9	PLEISTOCENE		CLAY	15.0	14.0	
494.9	CARBONDALE		GRAY SHALE	6.5	29.0	SOFT
488.4	CARBONDALE		COAL	1.5	35.5	GOOD
486.9	CARBONDALE		UNDERCLAY	3.0	37.0	
483.9	TRADEWATER		SANDY SHALE	3.0	40.0	HARD
480.9	TRADEWATER		SANDSTONE	5.0	43.0	HARD
475.9	TRADEWATER		SANDY SHALE	8.0	48.0	
467.9	TRADEWATER		DARK SHALE	1.5	56.0	
466.4	TRADEWATER		GRAY SHALE	2.0	57.5	
464.4	TRADEWATER		SANDSTONE	4.0	59.5	HARD
460.4	TRADEWATER		GRAY SHALE	10.5	63.5	

MAPID: 05786887000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 26 QUARTERS/FOOTAGES: 660' S line, 0' E line of SE NE

QUADRANGLE: ST. DAVID LONGITUDE: -90.124275 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.387776 DATE COLLECTED: 11 / 15 / 1961

SURFACE ELEVATION (FT.): 579.6 LOGGED (FT.): 92.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 22340 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
579.6	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
569.6			CLAY	16.0	10.0	
553.6			CLAY	17.0	26.0	
536.6			SANDY SHALE	22.0	43.0	VERY HARD
514.6			SANDY SHALE	9.0	65.0	
505.6			SANDY SHALE	14.0	74.0	SOFT
491.6			COAL	2.4	88.0	GOOD
489.2			UNDERCLAY	1.6	90.4	

MAPID: 05786882000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 27 QUARTERS/FOOTAGES: 660' S line, 660' W line of SW SE
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.150441 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.380384 DATE COLLECTED: 10 / 11 / 1961
 SURFACE ELEVATION (FT.): 566.9 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 22231 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
566.9	PLEISTOCENE		CLAY	9.0	0.0	
557.9	PLEISTOCENE		CLAY	14.0	9.0	
543.9	PLEISTOCENE		CLAY	25.0	23.0	
518.9	CARBONDALE		SHALE	28.0	48.0	HARD
490.9	CARBONDALE	COLCHESTER	COAL	2.2	76.0	GOOD
488.7	CARBONDALE		UNDERCLAY	1.8	78.2	

MAPID: 05786884000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 27 QUARTERS/FOOTAGES: NW SE
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.150413 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.384007 DATE COLLECTED: 10 / 10 / 1961
 SURFACE ELEVATION (FT.): 577.1 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 22305 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
577.1	PLEISTOCENE		CLAY	13.0	0.0	
564.1	PLEISTOCENE		CLAY	8.0	13.0	
556.1	PLEISTOCENE		CLAY	5.0	21.0	
551.1	CARBONDALE		SHALE	57.0	26.0	HARD
494.1	CARBONDALE	COLCHESTER	COAL	2.4	83.0	GOOD
491.7			UNDERCLAY	1.6	85.4	

MAPID: 05786888000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 27 QUARTERS/FOOTAGES: NE NE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.14561 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.39128 DATE COLLECTED: 7 / 26 / 1961

SURFACE ELEVATION (FT.): 527.4 LOGGED (FT.): 30.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 22408P WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
527.4	PLEISTOCENE		UNCONSOLIDATED	16.0	0.0	
511.4	CARBONDALE		SANDY SHALE	10.0	16.0	
501.4	CARBONDALE	COLCHESTER	COAL	2.4	26.0	GOOD
499.0	CARBONDALE		UNDERCLAY	1.6	28.4	

MAPID: 05786585000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 30 QUARTERS/FOOTAGES: 75' N line, 1' W line of NW NW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.217452 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.392849 DATE COLLECTED: 7 / 27 / 1961

SURFACE ELEVATION (FT.): 551.5 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE ZZ425 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
551.5	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0	
547.5	PLEISTOCENE		CLAY	9.0	4.0	
538.5	PLEISTOCENE		CLAY	9.0	13.0	
529.5	CARBONDALE		DARK SHALE	31.0	22.0	
498.5	CARBONDALE		GRAY SHALE	23.0	53.0	
475.5	CARBONDALE		BLACK SHALE	3.0	76.0	
472.5	CARBONDALE		DARK SHALE	7.0	79.0	
465.5	CARBONDALE	COLCHESTER	COAL	2.3	86.0	GOOD
463.2	CARBONDALE		UNDERCLAY	1.7	88.3	

MAPID: 05786494000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 33 QUARTERS/FOOTAGES: 495' N line, 660' W line of SE SW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.174032 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.366335 DATE COLLECTED: 7 / 13 / 1961
 SURFACE ELEVATION (FT.): 573.3 LOGGED (FT.): 77.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE PP44J WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
573.3	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
566.3	PLEISTOCENE		CLAY	15.0	7.0	
551.3	PLEISTOCENE		CLAY	24.0	22.0	
527.3	CARBONDALE		SANDSTONE	4.0	46.0	SOFT
523.3	CARBONDALE		SANDY SHALE	22.0	50.0	
501.3	CARBONDALE	COLCHESTER	COAL	2.7	72.0	GOOD
498.6	CARBONDALE		UNDERCLAY	2.3	74.7	

MAPID: 05786493000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 34 QUARTERS/FOOTAGES: 200' S line, 40' W line of SW SW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.161989 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.364722 DATE COLLECTED: 8 / 9 / 1961
 SURFACE ELEVATION (FT.): 519.3 LOGGED (FT.): 40.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE PP25 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 25

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
519.3	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
512.3	CARBONDALE		SHALE	25.0	7.0	
487.3	CARBONDALE		SHALE	2.0	32.0	SOFT
485.3	CARBONDALE		LIMESTONE	2.0	34.0	
483.3	CARBONDALE	COLCHESTER	COAL	2.4	36.0	GOOD
480.9	CARBONDALE		UNDERCLAY	1.6	38.4	

MAPID: 0578658000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 34 QUARTERS/FOOTAGES: 75' S line, 885' W line of SE NE
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.144925 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.371617 DATE COLLECTED: 10 / 11 / 1961
 SURFACE ELEVATION (FT.): 525.7 LOGGED (FT.): 45.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE ZZ108 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
525.7	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
516.7	CARBONDALE		SANDY SHALE	9.0	9.0	
507.7	CARBONDALE		SANDY SHALE	20.0	18.0	
487.7	CARBONDALE		SANDY SHALE	3.0	38.0	SOFT
484.7	CARBONDALE	COLCHESTER	COAL	2.3	41.0	GOOD
482.4	CARBONDALE		UNDERCLAY	1.7	43.3	

MAPID: 05786877000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 34 QUARTERS/FOOTAGES: SE SE
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.145754 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.366014 DATE COLLECTED: 8 / 7 / 1961
 SURFACE ELEVATION (FT.): 559.0 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 227 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
559.0	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
550.0	PLEISTOCENE		CLAY	22.0	9.0	
528.0	PLEISTOCENE		CLAY	45.0	31.0	
483.0	CARBONDALE	COLCHESTER	COAL	2.1	76.0	FAIR. WILL LOAD; TOP ERODED
480.9	CARBONDALE		UNDERCLAY	1.9	78.1	

MAPID: 05786878000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 35 QUARTERS/FOOTAGES: 660' S line, 660' E line of SW SW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.141032 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.366037 DATE COLLECTED: 8 / 8 / 1961
 SURFACE ELEVATION (FT.): 572.5 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 2235 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 35.0

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
572.5	PLEISTOCENE		CLAY	17.0	0.0	
555.5	PLEISTOCENE		CLAY	12.0	17.0	
543.5	PLEISTOCENE		CLAY	11.0	29.0	
532.5	CARBONDALE		SHALE	15.0	40.0	HARD
517.5	CARBONDALE		SHALE	39.0	55.0	VERY HARD
478.5	CARBONDALE	COLCHESTER	COAL	2.4	94.0	GOOD
476.1	CARBONDALE		UNDERCLAY	1.6	96.4	

MAPID: 05786880000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 35 QUARTERS/FOOTAGES: NE SW
 QUADRANGLE: DUNCAN MILLS LONGITUDE: -90.136281 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.369633 DATE COLLECTED: 7 / 12 / 1961
 SURFACE ELEVATION (FT.): 566.0 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 2211 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
566.0	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
558.0	PLEISTOCENE		CLAY	27.0	8.0	
531.0	CARBONDALE		SHALE	2.0	35.0	
529.0	CARBONDALE	HOUCHIN CREEK		1.0	37.0	
528.0			GRAY SHALE	4.0	38.0	
524.0			GRAY SANDSTONE	12.0	42.0	
512.0			GRAY SHALE	8.0	54.0	
504.0			SANDY SHALE	13.0	62.0	
491.0			GRAY SANDSTONE	21.8	75.0	
469.2			COAL	1.7	96.8	
467.5			UNDERCLAY	2.5	98.5	
465.0			GRAY SANDSTONE	4.0	101.0	
461.0			GRAY SHALE	3.0	105.0	

MAPID: 05786579000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 36 QUARTERS/FOOTAGES: 660' S line, 660' E line of SE SE
 QUADRANGLE: HAVANA LONGITUDE: -90.108009 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.366061 DATE COLLECTED: 4 / 14 / 1961
 SURFACE ELEVATION (FT.): 550.7 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE ZZ49 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.7	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
540.7	PLEISTOCENE		CLAY	17.0	10.0	
523.7	PLEISTOCENE		CLAY	39.0	27.0	
484.7	CARBONDALE		SHALE	7.0	66.0	SOFT
477.7	CARBONDALE		SHALE	13.0	73.0	HARD
464.7	CARBONDALE	COLCHESTER	COAL	2.4	86.0	
462.3	CARBONDALE		UNDERCLAY	1.6	88.4	

MAPID: 05786876000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 36 QUARTERS/FOOTAGES: 0' N line, 660' E line of SE SW
 QUADRANGLE: HAVANA LONGITUDE: -90.117375 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.36784 DATE COLLECTED: 3 / 10 / 1961
 SURFACE ELEVATION (FT.): 555.8 LOGGED (FT.): 73.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 2220 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
555.8	PLEISTOCENE		CLAY	15.0	0.0	
540.8	PLEISTOCENE		CLAY	10.0	15.0	
530.8	PLEISTOCENE		CLAY	10.0	25.0	
520.8	CARBONDALE		SHALE	34.0	35.0	
486.8	CARBONDALE	COLCHESTER	COAL	2.3	69.0	GOOD
484.5	CARBONDALE		UNDERCLAY	1.7	71.3	

MAPID: 05786879000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 36 QUARTERS/FOOTAGES: SE SE

QUADRANGLE: HAVANA LONGITUDE: -90.107976 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.366034 DATE COLLECTED: 4 / 14 / 1961

SURFACE ELEVATION (FT.): 523.3 LOGGED (FT.): 49.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 2273 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
523.3	PLEISTOCENE		CLAY	4.0	0.0	
519.3	CARBONDALE		SANDSTONE	14.0	4.0	HARD
505.3	CARBONDALE		SANDY SHALE	27.0	18.0	DARK
478.3	CARBONDALE	COLCHESTER	COAL	1.1	45.0	GOOD
477.2	CARBONDALE	COLCHESTER	COAL	0.3	46.1	SOFT
476.9	CARBONDALE	COLCHESTER	COAL	1.1	46.4	GOOD
475.8	CARBONDALE		UNDERCLAY	1.5	47.5	

MAPID: 05786881000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 5N 3E SECTION: 36 QUARTERS/FOOTAGES: 0' N line, 660' E line of NE NW

QUADRANGLE: ST. DAVID LONGITUDE: -90.11728 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.378638 DATE COLLECTED: 3 / 13 / 1961

SURFACE ELEVATION (FT.): 564.7 LOGGED (FT.): 79.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 22170 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
564.7	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
553.7	PLEISTOCENE		CLAY	13.0	11.0	
540.7	PLEISTOCENE		CLAY	18.0	24.0	
522.7	CARBONDALE		SANDY SHALE	33.0	42.0	
489.7	CARBONDALE	COLCHESTER	COAL	2.3	75.0	GOOD
487.4	CARBONDALE		UNDERCLAY	1.7	77.3	

MAPID: 05722009000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 4E SECTION: 1 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SE NW

QUADRANGLE: ST. DAVID LONGITUDE: -90.00683 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.446025 DATE COLLECTED: 4 / 18 / 1962

SURFACE ELEVATION (FT.): 580.0 LOGGED (FT.): 124.8 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
580.0			UNCONSOLIDATED	42.0	0.0	
538.0	CARBONDALE		SANDY SHALE	7.0	42.0	
531.0	CARBONDALE	PLEASANTVIEW	SANDSTONE	10.0	49.0	
521.0	CARBONDALE	PURINGTON	SHALE	40.8	59.0	SDY TOP 14 FT
480.2	CARBONDALE	OAK GROVE	LIMESTONE	8.3	99.8	5.25 FT SH PTG IN MDL
471.9	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.3	108.1	FISSILE
469.7	CARBONDALE	FRANCIS CREEK	SHALE	10.3	110.3	
459.3	CARBONDALE	COLCHESTER	COAL	2.4	120.7	BASE OF CARBONDALE
456.9	SPOON		UNDERCLAY	1.7	123.1	

MAPID: 05723516000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 4E SECTION: 1 QUARTERS/FOOTAGES: 2400' N line, 2490' E line

QUADRANGLE: ST. DAVID LONGITUDE: -90.001801 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.444876 DATE COLLECTED: 8 / 28 / 1969

SURFACE ELEVATION (FT.): 570.0 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO. WELL TYPE: Coal Test

COMMENT: SURF ELV. REPORTED AS 575: TOPO SAYS 630

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.0			UNCONSOLIDATED	18.0	0.0	
552.0	CARBONDALE		SHALE	25.5	18.0	SDY TOP 20 FT
526.5	CARBONDALE	SPRINGFIELD	COAL	2.1	43.5	
524.4	CARBONDALE		SHALE	4.4	45.6	

MAPID: 05723518000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 4E SECTION: 1 QUARTERS/FOOTAGES: 60' N line, 2100' W line

QUADRANGLE: ST. DAVID LONGITUDE: -90.003795 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.451335 DATE COLLECTED: 9 / 13 / 1974

SURFACE ELEVATION (FT.): 510.0 LOGGED (FT.): 15.0 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
510.0			UNCONSOLIDATED	4.0	0.0	
506.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	4.0	FISSILE
505.2	CARBONDALE	SPRINGFIELD	COAL	4.9	4.8	
500.2	CARBONDALE		UNDERCLAY	5.3	9.8	

MAPID: 05723525000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 4E SECTION: 1 QUARTERS/FOOTAGES: NE

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.997413 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.447833 DATE COLLECTED: 4 / 28 / 1962

SURFACE ELEVATION (FT.): 585.0 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.0			UNCONSOLIDATED	40.0	0.0	
545.0	CARBONDALE		SANDY SHALE	3.0	40.0	
542.0	CARBONDALE	PLEASANTVIEW	SANDSTONE	20.8	43.0	SDY SH IN MDL
521.2	CARBONDALE	OAK GROVE	LIMESTONE	1.6	63.8	"ROCK"
519.7	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.4	65.3	FISSILE
517.2	CARBONDALE	COLCHESTER	COAL	4.8	67.8	BASE OF CARBONDALE
512.5	SPOON		UNDERCLAY	1.5	72.5	

MAPID: 05723530000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 4E SECTION: 1 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NE

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.992728 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.447825 DATE COLLECTED: 4 / 24 / 1962

SURFACE ELEVATION (FT.): 585.0 LOGGED (FT.): 107.0 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.0			UNCONSOLIDATED	22.0	0.0	
563.0	CARBONDALE		SANDY SHALE	26.0	22.0	
537.0	CARBONDALE	PLEASANTVIEW	SANDSTONE	5.0	48.0	
532.0	CARBONDALE	PURINGTON	SHALE	44.5	53.0	
487.5	CARBONDALE	OAK GROVE	LIMESTONE	1.0	97.5	
486.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.8	98.5	FISSILE
484.7	CARBONDALE	COLCHESTER	COAL	5.2	100.3	BASE OF CARBONDALE
479.5	SPOON		UNDERCLAY	1.5	105.5	

MAPID: 05723537000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 4E SECTION: 1 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW NE

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.997513 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.444171 DATE COLLECTED: 4 / 17 / 1962

SURFACE ELEVATION (FT.): 595.0 LOGGED (FT.): 95.0 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
595.0			UNCONSOLIDATED	45.0	0.0	
550.0	CARBONDALE	PURINGTON	SHALE	43.0	45.0	
507.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.0	88.0	FISSILE
506.0	CARBONDALE	COLCHESTER	COAL	4.5	89.0	BASE OF CARBONDALE
501.5	SPOON		UNDERCLAY	1.5	93.5	

MAPID: 05724662000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON

TWP/RNG: 5N 4E

SECTION: 12

QUARTERS/FOOTAGES: SW NE NE

QUADRANGLE: DUCK ISLAND

LONGITUDE: -89.996549

GEOLOGIST: J. MCBETH

CONFIDENTIAL: N

LATITUDE: 40.434112

DATE COLLECTED: 10 / 16 / 1978

SURFACE ELEVATION (FT.): 568.0

LOGGED (FT.): 124.1

LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO.WELL3

WELL TYPE: Coal Test

COMMENT: PERMIT 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
568.0	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
560.0	PLEISTOCENE		GLACIAL DRIFT	39.0	8.0	WITH LOESS
521.0	PLEISTOCENE		GLACIAL DRIFT	12.0	47.0	WITH SAND AND GRAVEL
509.0	CARBONDALE		GRAY SHALE	13.0	59.0	
496.0	CARBONDALE		GRAY SHALE	8.5	72.0	
487.5	CARBONDALE		SANDSTONE	3.0	80.5	
484.5	CARBONDALE		GRAY SHALE	30.5	83.5	WITH SANDSTONE
454.0	CARBONDALE		GRAY SHALE	1.5	114.0	DARK
452.5	CARBONDALE		SANDSTONE	1.8	115.5	
450.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	117.3	
449.6	CARBONDALE	SPRINGFIELD	COAL	5.7	118.4	

MAPID: 05701711000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 5N 4E

SECTION: 18

QUARTERS/FOOTAGES: 0' N line, 0' W line of NE NW NW NW

QUADRANGLE: ST. DAVID

LONGITUDE: -90.104158

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.422305

DATE COLLECTED: 1 / 13 / 1955

SURFACE ELEVATION (FT.): 580.0

LOGGED (FT.): 37.0

LOG TYPE: Drillers Log

SOURCE: MORGAN COAL CO.

WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-103

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
580.0			UNCONSOLIDATED	25.0	0.0	
555.0	CARBONDALE		SANDY SHALE	5.6	25.0	
549.4	CARBONDALE		SHALE	1.0	30.6	
548.4	CARBONDALE		BLACK SHALE	0.8	31.6	FISSILE
547.6	CARBONDALE	KERTON CREEK	COAL	4.6	32.4	

MAPID: 05701714000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 4E SECTION: 18 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SW SW NW
 QUADRANGLE: ST. DAVID LONGITUDE: -90.104221 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.415017 DATE COLLECTED: 1 / 24 / 1955
 SURFACE ELEVATION (FT.): 585.0 LOGGED (FT.): 31.4 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-103

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.0			UNCONSOLIDATED	30.5	0.0	
554.5	CARBONDALE	KERTON CREEK	COAL	0.9	30.5	ERODED

MAPID: 05701716000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 4E SECTION: 18 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SE
 QUADRANGLE: ST. DAVID LONGITUDE: -90.092463 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.407742 DATE COLLECTED: 1 / 25 / 1955
 SURFACE ELEVATION (FT.): 583.0 LOGGED (FT.): 47.6 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-103

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
583.0			UNCONSOLIDATED	34.0	0.0	
549.0	CARBONDALE		SHALE	2.8	34.0	
546.2	CARBONDALE	KERTON CREEK	COAL	2.0	36.8	SS,SH,COAL
544.2	CARBONDALE	PURINGTON	SHALE	2.5	38.8	
541.7	CARBONDALE	OAK GROVE	LIMESTONE	2.3	41.3	
539.4	CARBONDALE	FRANCIS CREEK	SHALE	1.2	43.6	BLUE
538.2	CARBONDALE	COLCHESTER	COAL	3.8	44.8	BASE OF CARBONDALE

MAPID: 05700047000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 4E SECTION: 19 QUARTERS/FOOTAGES: 733' S line, 514' W line
 QUADRANGLE: ST. DAVID LONGITUDE: -90.10358 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.395267 DATE COLLECTED: 4 / 0 / 1942
 SURFACE ELEVATION (FT.): 560.0 LOGGED (FT.): 1105.0 LOG TYPE: Drillers Log
 SOURCE: BOWTON, DARRELL, ET AL. WELL TYPE: Dry Hole
 COMMENT: DRILLER'S LOG; SAMPLE STUDY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.0			UNCONSOLIDATED	22.0	0.0	
538.0	SPOON		SHALE	48.0	22.0	
490.0	SPOON	SEVILLE	LIMESTONE	10.0	70.0	
480.0	SPOON		SHALE	35.0	80.0	
445.0	SPOON	ROCK ISLAND	COAL	5.0	115.0	BS SPOON,COAL & BK,FIS SH
440.0	ABBOTT		SHALE	40.0	120.0	DARK
400.0	ABBOTT		SHALE	25.0	160.0	BS PENNSYLVANIAN, SDY
375.0			ROCK	920.0	185.0	MISSISSIPPIAN TO ORDOVICIAN

MAPID: 05786981000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 5N 4E SECTION: 20 QUARTERS/FOOTAGES: SW SW
 QUADRANGLE: ST. DAVID LONGITUDE: -90.085425 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.394993 DATE COLLECTED: 7 / 13 / 1961
 SURFACE ELEVATION (FT.): 575.8 LOGGED (FT.): 96.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE AB409 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
575.8	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
567.8	PLEISTOCENE		CLAY & GRAVEL	10.0	8.0	
557.8	PLEISTOCENE		CLAY	10.0	18.0	
547.8	PLEISTOCENE		CLAY	5.0	28.0	
542.8	CARBONDALE		SANDY SHALE	17.0	33.0	
525.8	CARBONDALE		GRAY SANDSTONE	6.0	50.0	
519.8	CARBONDALE		GRAY SHALE	5.0	56.0	
514.8	CARBONDALE		SANDSTONE	4.0	61.0	
510.8	CARBONDALE		SANDSTONE	13.0	65.0	HARD
497.8	CARBONDALE		DARK SHALE	4.0	78.0	
493.8	CARBONDALE		SHALE & SANDSTONE	9.2	82.0	
484.6	CARBONDALE	COLCHESTER	COAL	3.1	91.2	GOOD
481.5	CARBONDALE		UNDERCLAY	1.8	94.3	

MAPID: 05786979000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 5N 4E SECTION: 30 QUARTERS/FOOTAGES: NW SE

QUADRANGLE: ST. DAVID LONGITUDE: -90.094995 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.383997 DATE COLLECTED: 7 / 27 / 1961

SURFACE ELEVATION (FT.): 556.7 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE AB305 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
556.7	PLEISTOCENE		CLAY	12.0	0.0	
544.7	PLEISTOCENE		CLAY	7.0	12.0	
537.7	PLEISTOCENE		CLAY	5.0	19.0	
532.7	CARBONDALE		SHALE	7.0	24.0	SOFT
525.7	CARBONDALE		SHALE	24.0	31.0	HARD
501.7	CARBONDALE		LIMESTONE	1.0	55.0	CAPROCK
500.7	CARBONDALE	COLCHESTER	COAL	2.4	56.0	GOOD
498.3	CARBONDALE		UNDERCLAY	1.6	58.4	

MAPID: 05786980000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 5N 4E SECTION: 30 QUARTERS/FOOTAGES: 0' S line, 660' E line of NE SW

QUADRANGLE: ST. DAVID LONGITUDE: -90.09975 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.382188 DATE COLLECTED: 7 / 26 / 1961

SURFACE ELEVATION (FT.): 570.8 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE AB404 WELL TYPE: Coal Test

COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.8	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0	
565.8	PLEISTOCENE		CLAY	14.0	5.0	
551.8	PLEISTOCENE		CLAY	11.0	19.0	
540.8	CARBONDALE		SANDY SHALE	52.0	30.0	
488.8	CARBONDALE	COLCHESTER	COAL	2.3	82.0	GOOD
486.5	CARBONDALE		UNDERCLAY	1.7	84.3	

MAPID: 05786977000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 5N 4E SECTION: 31 QUARTERS/FOOTAGES: 660' S line, 660' E line of SW SW
 QUADRANGLE: HAVANA LONGITUDE: -90.104463 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.366038 DATE COLLECTED: 4 / 13 / 1961
 SURFACE ELEVATION (FT.): 559.3 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE AB27 WELL TYPE: Coal Test
 COMMENT: VERMONT AREA BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
559.3	PLEISTOCENE		CLAY	6.0	0.0	
553.3	PLEISTOCENE		CLAY	5.0	6.0	
548.3	PLEISTOCENE		CLAY	47.0	11.0	
501.3	CARBONDALE		SHALE	19.0	58.0	HARD
482.3	CARBONDALE	COLCHESTER	COAL	2.2	77.0	GOOD
480.1	CARBONDALE		UNDERCLAY	1.8	79.2	

MAPID: 05786978000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 5N 4E SECTION: 31 QUARTERS/FOOTAGES: 660' S line, 660' W line of SE NW
 QUADRANGLE: HAVANA LONGITUDE: -90.099759 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.373225 DATE COLLECTED: 4 / 18 / 1961
 SURFACE ELEVATION (FT.): 557.2 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE AB129 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
557.2	PLEISTOCENE		CLAY	12.0	0.0	
545.2	PLEISTOCENE		CLAY	17.0	12.0	
528.2	PLEISTOCENE		CLAY	19.0	29.0	
509.2	CARBONDALE		SHALE	7.0	48.0	SOFT
502.2	CARBONDALE		SHALE	16.0	55.0	HARD
486.2	CARBONDALE	COLCHESTER	COAL	2.0	71.0	GOOD
484.2	CARBONDALE		UNDERCLAY	1.0	73.0	

MAPID: 05786987000C VERSION: 1

PROJECT: NCRDS 02

COUNTY: FULTON TWP/RNG: 5N 4E SECTION: 31 QUARTERS/FOOTAGES: 180' S line, 0' E line of NW NE
 QUADRANGLE: ST. DAVID LONGITUDE: -90.092664 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.375443 DATE COLLECTED: 4 / 19 / 1961
 SURFACE ELEVATION (FT.): 565.3 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE AB155J WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 35

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
565.3	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
556.3	PLEISTOCENE		CLAY	15.0	9.0	
541.3	PLEISTOCENE		CLAY	21.0	24.0	
520.3	CARBONDALE		SANDY SHALE	22.0	45.0	
498.3	CARBONDALE	COLCHESTER	COAL	2.2	67.0	GOOD
496.1	CARBONDALE		UNDERCLAY	0.8	69.2	

MAPID: 05700943000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 5E SECTION: 5 QUARTERS/FOOTAGES: 1320' N line, 330' W line of NE
 QUADRANGLE: DUCK ISLAND LONGITUDE: -89.962947 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.447481 DATE COLLECTED: 1 / 0 / 1956
 SURFACE ELEVATION (FT.): 476.0 LOGGED (FT.): 230.0 LOG TYPE: Drillers Log
 SOURCE: WHITNAH ESTATE, THE WELL TYPE: Water Well
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
476.0			UNCONSOLIDATED	20.0	0.0	
456.0	CARBONDALE		SHALE	25.0	20.0	
431.0	CARBONDALE	COLCHESTER	COAL	2.0	45.0	BASE OF CARBONDALE
429.0	SPOON		SHALE	8.0	47.0	
421.0	SPOON		SANDSTONE	20.0	55.0	
401.0	SPOON		SHALE	5.0	75.0	
396.0	SPOON		SHALE	25.0	80.0	INTRBDD W/ SS
371.0	SPOON		SHALE	5.0	105.0	
366.0	SPOON		SHALE	15.0	110.0	INTRBDD W/ SS
351.0	SPOON		SHALE	5.0	125.0	
346.0	SPOON	ROCK ISLAND	COAL	5.0	130.0	BASE OF SPOON
341.0	ABBOTT		ROCK	5.0	135.0	
336.0	ABBOTT		GRAY SHALE	10.0	140.0	
326.0	ABBOTT		SHALE	20.0	150.0	INTRBDD W/ SS
306.0	ABBOTT		SHALE	15.0	170.0	
291.0	ABBOTT		SANDSTONE	10.0	185.0	
281.0	ABBOTT		SHALE	5.0	195.0	BASE OF PENNSYLVANIAN
276.0			LIMESTONE	30.0	200.0	MISSISSIPPIAN

MAPID: 05723542000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 5E SECTION: 6 QUARTERS/FOOTAGES: 0' S line, 0' E line of NW SW

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.988144 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.440466 DATE COLLECTED: 8 / 26 / 1961

SURFACE ELEVATION (FT.): 560.0 LOGGED (FT.): 118.0 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.0			UNCONSOLIDATED	25.0	0.0	
535.0	CARBONDALE		SHALE	12.0	25.0	
523.0	CARBONDALE		SANDSTONE	1.0	37.0	
522.0	CARBONDALE		SHALE	22.1	38.0	
499.9	CARBONDALE		SANDSTONE	2.3	60.1	
497.7	CARBONDALE		SHALE	7.0	62.3	
490.7	CARBONDALE		SANDSTONE	6.5	69.3	
484.2	CARBONDALE		SHALE	4.8	75.8	
479.3	CARBONDALE	OAK GROVE	LIMESTONE	28.0	80.7	26-FT SH PTG IN MDL
451.3	CARBONDALE		SHALE	1.3	108.7	
450.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.3	110.0	FISSILE
447.7	CARBONDALE	COLCHESTER	COAL	4.5	112.3	BASE OF CARBONDALE
443.2	SPOON		UNDERCLAY	1.2	116.8	

MAPID: 05723556000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 5E SECTION: 6 QUARTERS/FOOTAGES: NW

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.98795 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.447787 DATE COLLECTED: 7 / 10 / 1953

SURFACE ELEVATION (FT.): 585.0 LOGGED (FT.): 89.1 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.0			UNCONSOLIDATED	40.0	0.0	
545.0	CARBONDALE		SHALE	39.2	40.0	
505.8	CARBONDALE	ST. DAVID	LIMESTONE	1.5	79.2	"ROCK"
504.3	CARBONDALE	TURNER MINE	BLACK SHALE	3.4	80.7	FISSILE
500.9	CARBONDALE	SPRINGFIELD	COAL	5.0	84.1	

MAPID: 05723557000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 5E SECTION: 6 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW NW

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.988047 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.444125 DATE COLLECTED: 7 / 10 / 1953

SURFACE ELEVATION (FT.): 580.0 LOGGED (FT.): 118.6 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
580.0			UNCONSOLIDATED	40.0	0.0	
540.0	CARBONDALE	PURINGTON	SHALE	70.0	40.0	
470.0	CARBONDALE	OAK GROVE	LIMESTONE	0.8	110.0	"ROCK"
469.2	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.5	110.8	FISSILE
466.7	CARBONDALE	COLCHESTER	COAL	5.0	113.3	BASE OF CARBONDALE
461.7	SPOON		UNDERCLAY	0.3	118.3	

MAPID: 05723559000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 5E SECTION: 6 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NE NW

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.983126 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.449581 DATE COLLECTED: 9 / 1 / 1953

SURFACE ELEVATION (FT.): 595.0 LOGGED (FT.): 40.6 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO. WELL TYPE: Coal Test

COMMENT: SURF ELV. REPORTED AS 520: TOPO SAYS 595

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
595.0			UNCONSOLIDATED	25.0	0.0	
570.0	CARBONDALE	CANTON	SHALE	7.9	25.0	
562.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	32.9	"ROCK"
561.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.2	33.3	FISSILE
559.5	CARBONDALE	SPRINGFIELD	COAL	4.6	35.5	
554.9	CARBONDALE		UNDERCLAY	0.5	40.1	

MAPID: 05723561000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 5E SECTION: 6 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.992832 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.444158 DATE COLLECTED: 9 / 13 / 1953

SURFACE ELEVATION (FT.): 599.0 LOGGED (FT.): 125.0 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
599.0			UNCONSOLIDATED	78.0	0.0	
521.0	CARBONDALE	PURINGTON	SHALE	37.6	78.0	
483.4	CARBONDALE	OAK GROVE	LIMESTONE	1.7	115.6	6-IN SH PTG IN MDL
481.7	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.5	117.3	FISSILE
479.2	CARBONDALE	COLCHESTER	COAL	5.0	119.8	BASE OF CARBONDALE
474.2	SPOON		UNDERCLAY	0.3	124.8	

MAPID: 05723569000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 5N 5E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.983261 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.444095 DATE COLLECTED: 8 / 18 / 1953

SURFACE ELEVATION (FT.): 585.0 LOGGED (FT.): 100.8 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.0			UNCONSOLIDATED	40.0	0.0	
545.0	CARBONDALE	PURINGTON	SHALE	9.1	40.0	
535.9	CARBONDALE	OAK GROVE	LIMESTONE	43.3	49.1	LS,SH,SS
492.7	CARBONDALE		SHALE	0.7	92.3	
492.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.5	93.0	FISSILE
489.5	CARBONDALE	COLCHESTER	COAL	5.0	95.5	BASE OF CARBONDALE
484.5	SPOON		UNDERCLAY	0.3	100.5	

MAPID: 05724666000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 5N 5E SECTION: 7 QUARTERS/FOOTAGES: SE SE

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.976406 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.423969 DATE COLLECTED: 3 / 3 / 1981

SURFACE ELEVATION (FT.): LOGGED (FT.): 124.0 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO.WELL11 WELL TYPE: Water Well

COMMENT: PERMIT 15; LOG IS GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0	
-	PLEISTOCENE		GLACIAL DRIFT	37.0	5.0	
-	PLEISTOCENE		CLAY	4.0	42.0	
-	CARBONDALE		GRAY SHALE	21.0	46.0	
-	CARBONDALE		SANDSTONE	8.0	67.0	
-	CARBONDALE		GRAY SHALE	29.0	75.0	
-	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	104.0	
-	CARBONDALE	SPRINGFIELD	COAL	6.0	107.0	
-	CARBONDALE		SHALE	1.0	113.0	DARK GRAY
-	CARBONDALE		GRAY SHALE	10.0	114.0	

MAPID: 05724667000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 5N 5E SECTION: 7 QUARTERS/FOOTAGES: NW NE

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.981049 GEOLOGIST: MCBETH

CONFIDENTIAL: N LATITUDE: 40.434943 DATE COLLECTED: 3 / 23 / 1981

SURFACE ELEVATION (FT.): LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO WELL12 WELL TYPE: Water Well

COMMENT: PERMIT 15 LOG IS GENERALIZED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0	
-	PLEISTOCENE		GLACIAL DRIFT	28.0	5.0	
-	CARBONDALE		GRAY SHALE	42.0	33.0	
-	CARBONDALE	ST. DAVID	LIMESTONE	1.0	75.0	
-	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	76.0	
-	CARBONDALE	SPRINGFIELD	COAL	6.0	79.0	
-	CARBONDALE		UNDERCLAY	5.0	85.0	

MAPID: 05724668000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 5N 5E SECTION: 7 QUARTERS/FOOTAGES: 355' N line, 2385' W line

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.984388 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.435804 DATE COLLECTED: 0 / 0 / 1981

SURFACE ELEVATION (FT.): LOGGED (FT.): 124.5 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO JO-1-81 WELL TYPE: Coal Test

COMMENT: PERMIT 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		UNCONSOLIDATED	45.7	0.0	
-	PLEISTOCENE		SILT & CLAY	5.9	45.7	
-	CARBONDALE	BIG CREEK	SILTY SHALE	16.8	51.6	
-	CARBONDALE	VERMILIONVILLE	ARGILLACEOUS SANDSTONE	8.5	68.4	
-	CARBONDALE	CANTON	SHALE	27.4	76.9	SILTY NEAR TOP; CALCAREOUS AT BTM .9'
-	CARBONDALE	ST. DAVID	LIMESTONE	0.9	104.3	
-	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	105.2	
-	CARBONDALE	SPRINGFIELD	COAL	0.2	107.7	WITH SHALE
-	CARBONDALE	SPRINGFIELD	COAL	5.1	107.9	
-	CARBONDALE	SPRINGFIELD	BLACK SHALE	0.8	113.0	CRUMBLY
-	CARBONDALE	SPRINGFIELD	COAL	0.6	113.8	POOR QUALITY; WITH BKSH
-	CARBONDALE		UNDERCLAY	5.1	114.4	SLICKENSIDES
-	CARBONDALE		CLAYSTONE	5.0	119.5	SOME LS CONCRETIONS

MAPID: 05700048000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 1 QUARTERS/FOOTAGES: 150' S line, 150' W line of NE

QUADRANGLE: BLYTON LONGITUDE: -90.33936 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.532291 DATE COLLECTED: 6 / 0 / 1940

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 212.0 LOG TYPE: Drillers Log

SOURCE: PETERSON, WILLIS WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			UNCONSOLIDATED	43.0	0.0	
432.0	CARBONDALE		SHALE	15.0	43.0	
417.0	CARBONDALE	OAK GROVE	LIMESTONE	2.0	58.0	"CAP ROCK"
415.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.5	60.0	FISSILE
412.5	CARBONDALE	COLCHESTER	COAL	3.7	62.5	BASE OF CARBONDALE
408.8	SPOON		UNDERCLAY	4.0	66.2	
404.8	SPOON		SHALE	14.0	70.2	
390.8	SPOON	SEVILLE	LIMESTONE	0.8	84.2	"HARD ROCK"
390.0	SPOON		SHALE	3.0	85.0	BASE OF SPOON
387.0	ABBOTT	BERNADOTTE	SANDSTONE	14.5	88.0	
372.5	ABBOTT		SHALE	1.5	102.5	
371.0	ABBOTT		SANDSTONE	11.0	104.0	BASE OF PENNSYLVANIAN
360.0			LIMESTONE W/ SHALE	97.0	115.0	MISSISSIPPIAN

MAPID: 05786830000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 1 QUARTERS/FOOTAGES: 0' S line, 20' W line of SW SE

QUADRANGLE: BLYTON LONGITUDE: -90.339957 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.524308 DATE COLLECTED: 11 / 2 / 1960

SURFACE ELEVATION (FT.): 575.4 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE B471 WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
575.4	PLEISTOCENE		CLAY	15.0	0.0	
560.4	PLEISTOCENE		CLAY	10.0	15.0	
550.4	PLEISTOCENE		CLAY	5.0	25.0	
545.4	CARBONDALE		SHALE	20.0	30.0	SOFT
525.4	CARBONDALE		SHALE	13.0	50.0	HARD
512.4	CARBONDALE	COLCHESTER	COAL	1.0	63.0	SOFT
511.4	CARBONDALE		UNDERCLAY	1.0	64.0	

MAPID: 05786821000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 4 QUARTERS/FOOTAGES: NE SE

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.390553 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.530515 DATE COLLECTED: 1 / 19 / 1961

SURFACE ELEVATION (FT.): 521.7 LOGGED (FT.): 27.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A525 WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
521.7	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0	
517.7	PLEISTOCENE		SAND	2.5	4.0	
515.2	TRADEWATER		BLACK SHALE	2.0	6.5	
513.2	TRADEWATER		SANDSTONE	1.0	8.5	
512.2	TRADEWATER		GRAY SHALE	10.0	9.5	
502.2	TRADEWATER		BLACK SHALE	2.0	19.5	
500.2	TRADEWATER		GRAY SHALE	1.5	21.5	
498.7	TRADEWATER		DARK SHALE	0.8	23.0	
497.9	TRADEWATER	ROCK ISLAND	COAL	1.3	23.8	
496.5	TRADEWATER		UNDERCLAY	1.8	25.2	

MAPID: 05786837000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 4 QUARTERS/FOOTAGES: SE SE

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.390597 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.526889 DATE COLLECTED: 2 / 2 / 1961

SURFACE ELEVATION (FT.): 618.6 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A473 WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
618.6	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
607.6	PLEISTOCENE		CLAY	17.0	11.0	
590.6	PLEISTOCENE		CLAY	22.0	28.0	
568.6	CARBONDALE		GRAY SHALE	11.0	50.0	
557.6	CARBONDALE	COLCHESTER	COAL	2.2	61.0	FAIR
555.4	CARBONDALE		UNDERCLAY	1.8	63.2	

MAPID: 05786578000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 5 QUARTERS/FOOTAGES: 660' N line, 1' E line of SE SW

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.417056 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.527058 DATE COLLECTED: 11 / 3 / 1960

SURFACE ELEVATION (FT.): 618.7 LOGGED (FT.): 54.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A438 WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
618.7	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
608.7	PLEISTOCENE		CLAY	10.0	10.0	
598.7	PLEISTOCENE		CLAY	5.0	20.0	
593.7	CARBONDALE		SANDY SHALE	25.0	25.0	
568.7	CARBONDALE	COLCHESTER	COAL	2.3	50.0	GOOD
566.4	CARBONDALE		UNDERCLAY	1.8	52.3	

MAPID: 05786820000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 5 QUARTERS/FOOTAGES: NW SW

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.424316 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.530727 DATE COLLECTED: 11 / 1 / 1960

SURFACE ELEVATION (FT.): 627.9 LOGGED (FT.): 89.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A511 WELL TYPE: Coal Test

COMMENT: MARIETTA AREA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
627.9	PLEISTOCENE		CLAY	15.0	0.0	
612.9	PLEISTOCENE		CLAY	15.0	15.0	
597.9	PLEISTOCENE		CLAY	50.0	30.0	
547.9	CARBONDALE		SHALE	6.0	80.0	SOFT
541.9	CARBONDALE	COLCHESTER	COAL	2.0	86.0	SOFT
539.9	CARBONDALE		UNDERCLAY	1.0	88.0	

MAPID: 05786836000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 5 QUARTERS/FOOTAGES: SW SE

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.414637

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.52706

DATE COLLECTED: 11 / 4 / 1960

SURFACE ELEVATION (FT.): 603.6

LOGGED (FT.): 62.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A413

WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
603.6	PLEISTOCENE		CLAY	15.0	0.0	
588.6	PLEISTOCENE		CLAY	10.0	15.0	
578.6	PLEISTOCENE		CLAY	15.0	25.0	
563.6	TRADEWATER		SANDY SHALE	10.0	40.0	
553.6	TRADEWATER		BLACK SHALE	1.0	50.0	
552.6	TRADEWATER		SHALE	7.0	51.0	SOFT
545.6	TRADEWATER	ROCK ISLAND	COAL	2.2	58.0	GOOD
543.4	TRADEWATER		UNDERCLAY	1.8	60.2	

MAPID: 05786819000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 6 QUARTERS/FOOTAGES: NW SE

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.433844

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.530713

DATE COLLECTED: 6 / 10 / 1960

SURFACE ELEVATION (FT.): 631.7

LOGGED (FT.): 53.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A505

WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
631.7	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
622.7	PLEISTOCENE		CLAY	10.0	9.0	
612.7	PLEISTOCENE		CLAY	19.0	19.0	
593.7	CARBONDALE		SANDY SHALE	11.0	38.0	
582.7	CARBONDALE	COLCHESTER	COAL	2.3	49.0	GOOD
580.4	CARBONDALE		UNDERCLAY	1.7	51.3	

MAPID: 05786822000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 6 QUARTERS/FOOTAGES: 235' N line, 703' E line of SW NW
 QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.443523 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.535413 DATE COLLECTED: 9 / 24 / 1965
 SURFACE ELEVATION (FT.): 617.1 LOGGED (FT.): 64.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE A527D WELL TYPE: Coal Test
 COMMENT: MARIETTA AREA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
617.1	PLEISTOCENE		CLAY	14.0	0.0	
603.1	PLEISTOCENE		CLAY	7.0	14.0	
596.1	PLEISTOCENE		SAND & GRAVEL	38.0	21.0	
558.1	CARBONDALE		GRAY SHALE	2.0	59.0	SOFT
556.1	CARBONDALE	COLCHESTER	COAL	1.9	61.0	HARD
554.2	CARBONDALE		UNDERCLAY	1.1	62.9	

MAPID: 05786835000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 6 QUARTERS/FOOTAGES: SE SE
 QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.42908 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.527133 DATE COLLECTED: 6 / 9 / 1960
 SURFACE ELEVATION (FT.): 612.2 LOGGED (FT.): 77.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE A407 WELL TYPE: Coal Test
 COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
612.2	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
603.2	PLEISTOCENE		CLAY	20.0	9.0	
583.2	PLEISTOCENE		SAND & GRAVEL	34.0	29.0	
549.2	TRADEWATER		MICACEOUS SHALE	11.0	63.0	SOFT
538.2	TRADEWATER		COAL	1.0	74.0	SOFT
537.2	TRADEWATER		MICACEOUS SHALE	2.0	75.0	

MAPID: 05701804000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 7 QUARTERS/FOOTAGES: NW SE SE

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.430669 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.51351 DATE COLLECTED: 6 / 15 / 1961

SURFACE ELEVATION (FT.): 633.6 LOGGED (FT.): 106.1 LOG TYPE: Survey Core Study

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: 1,4

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.6			ROCK	29.0	0.0	UNDIFF, INCL UNC
604.6	CARBONDALE	OAK GROVE	LIMESTONE	0.3	29.0	
604.3	CARBONDALE		SHALE	3.8	29.3	DK GY, FOSFS, CALC
600.5	CARBONDALE		BLACK SHALE	1.0	33.1	BK, "PIMPLY", LENSES OF LS T/O
599.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.6	34.1	BK, FIS, PYRC
598.9	CARBONDALE	FRANCIS CREEK	SHALE	15.1	34.7	MD GY, STY ZONES
583.8	CARBONDALE	COLCHESTER	COAL	2.3	49.8	BS CARBONDALE; INTRVL LOST IN CORE
581.6	SPOON		UNDERCLAY	1.8	52.0	INTRVL LOST IN CORE
579.8	SPOON		SHALE	6.3	53.8	INTRVL LOST IN CORE
573.6	SPOON		SILTSTONE	4.2	60.0	PYRC, FN SS TO STY SH
569.4	SPOON		SHALE	2.1	64.2	MD GY, INTRLAMD W/ DKR LAM, PYRC, SLPFRACD
567.3	SPOON	ISABEL	SANDSTONE	2.9	66.3	GY, INTRLAMD W/ DKR MAT, CALC
564.4	SPOON		BLACK SHALE	0.9	69.2	GY MTLD MD GY TO BK, STY, MICS
563.5	SPOON	WILEY	COAL	0.3	70.1	DULL, BONY
563.3	SPOON		SHALE	3.5	70.3	SLPFRACD, MD GY, STY, PLANT IMPRES, CALC
559.8	SPOON		BLACK SHALE	0.3	73.8	BK, PYRC, BIT BNDS
559.5	SPOON		CLAYSTONE	3.0	74.1	MD GY TO LT OLV- GY
556.5	SPOON	DELONG	COAL	0.1	77.1	HIGHLY BIT SH, PYR STGRS, BONY
556.4	SPOON		UNDERCLAY	0.1	77.2	OLV-GY, PLANT FRAGS
556.3	SPOON		CLAYSTONE	8.6	77.3	LT TO DK OLV-GY, SLPFRACD, PYRC, CARB @ 80
547.7	SPOON		SHALE	4.1	85.9	DK OLV-GY TO LT GNSH GY, CARB, MICS, STY
543.6	SPOON		SHALE	1.2	90.0	MD GY, SLKNSDD
542.4	SPOON		SANDSTONE/SHALE	0.3	91.2	INTRLAMD, MICS
542.2	SPOON		SHALE	1.0	91.4	DK GY, SLKNSDD, PLANT IMPS
541.2	SPOON	ROCK ISLAND	COAL	2.4	92.4	PYRC, DULL TO NBB
538.8	SPOON		BLACK SHALE	0.2	94.8	BK, FIS, CY, PYRC, PLANT REMAINS
538.6	SPOON		CLAYSTONE	0.5	95.0	BS SPOON; SLKNSDD; STY + SDY; CARB PLT RM
538.1	ABBOTT	BERNADOTTE	SANDSTONE	5.2	95.5	LT OLV-GY TO MD GY, FN- GRND, STIG, PYRC
533.0	ABBOTT		SHALE	2.8	100.6	MD DK GY, INTRLAMD W/ STKS SS, PYRC, CARB
530.1	ABBOTT	POPE CREEK	COAL	0.9	103.5	DB, PYRC
529.2	ABBOTT		SHALE	0.3	104.4	DK GY, CARB, CY LAYER 2-IN FROM TOP
528.9	ABBOTT		SHALE	1.4	104.7	MD LT GY, SLKNSDD, CARB

MAPID: 05786561000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 7 QUARTERS/FOOTAGES: 660' S line, 660' E line of SE SE

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.429244 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.512624 DATE COLLECTED: 6 / 19 / 1961

SURFACE ELEVATION (FT.): 628.9 LOGGED (FT.): 38.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A233 WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
628.9	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
617.9	PLEISTOCENE		CLAY & GRAVEL	11.0	11.0	
606.9	PLEISTOCENE		BOULDER	1.0	22.0	
605.9	PLEISTOCENE		CLAY	3.0	23.0	
602.9	CARBONDALE		SANDSTONE	0.5	26.0	
602.4	CARBONDALE		GRAY SHALE	8.0	26.5	
594.4	CARBONDALE	COLCHESTER	COAL	2.5	34.5	GOOD
591.9	CARBONDALE		UNDERCLAY	1.0	37.0	

MAPID: 05786814000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 7 QUARTERS/FOOTAGES: SW SW

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.444165 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.512476 DATE COLLECTED: 4 / 18 / 1960

SURFACE ELEVATION (FT.): 625.1 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A201 WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
625.1	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
614.1	PLEISTOCENE		CLAY	16.0	11.0	
598.1	PLEISTOCENE		CLAY	16.0	27.0	
582.1			SHALE	24.0	43.0	
558.1			COAL	0.8	67.0	#2?
557.3			UNDERCLAY	1.2	67.8	
556.1			DARK SHALE	4.0	69.0	
552.1			COAL	0.7	73.0	
551.4			MICACEOUS SHALE	6.3	73.7	
545.1			BROWN LIMESTONE	6.0	80.0	

MAPID: 05786834000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 7 QUARTERS/FOOTAGES: NW NW

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.44406 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.523357 DATE COLLECTED: 4 / 19 / 1960

SURFACE ELEVATION (FT.): 630.1 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A353 WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.1	PLEISTOCENE		CLAY	11.0	0.0	
619.1	PLEISTOCENE		CLAY	22.0	11.0	
597.1	PLEISTOCENE		CLAY	19.0	33.0	
578.1			SHALE	6.0	52.0	HARD
572.1			COAL	0.5	58.0	BLOOM
571.6			SHALE	14.0	58.5	HARD
557.6			LIMESTONE	2.0	72.5	
555.6			SANDY SHALE	9.0	74.5	HARD
546.6			COAL	2.8	83.5	GOOD
543.8			UNDERCLAY	0.8	86.3	

MAPID: 05723407000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 8 QUARTERS/FOOTAGES: 0' S line, 0' E line

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.407674 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.510812 DATE COLLECTED: 0 / 0 / 1961

SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 49.2 LOG TYPE: Drillers Log

SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
573.2	CARBONDALE	COLCHESTER	COAL	2.4	46.8	BASE OF CARBONDALE

MAPID: 05723408000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 8 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SE

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.412478 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.510817 DATE COLLECTED: 0 / 0 / 1961

SURFACE ELEVATION (FT.): 630.0 LOGGED (FT.): 53.4 LOG TYPE: Drillers Log

SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
579.0	CARBONDALE	COLCHESTER	COAL	2.4	51.0	BASE OF CARBONDALE

MAPID: 05723409000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 8 **QUARTERS/FOOTAGES:** 360' S line, 2050' W line
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.419458 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.511814 **DATE COLLECTED:** 0 / 0 / 1961
SURFACE ELEVATION (FT.): 620.0 **LOGGED (FT.):** 52.4 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.0	CARBONDALE	COLCHESTER	COAL	2.4	50.0	BASE OF CARBONDALE

MAPID: 05723411000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 8 **QUARTERS/FOOTAGES:** 0' S line, 0' W line
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.426881 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.510824 **DATE COLLECTED:** 8 / 31 / 1950
SURFACE ELEVATION (FT.): 635.0 **LOGGED (FT.):** 42.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.0			UNCONSOLIDATED	18.5	0.0	
616.5	CARBONDALE	PURINGTON	SHALE	4.2	18.5	
612.3	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.6	22.7	FISSILE
610.7	CARBONDALE	FRANCIS CREEK	SHALE	15.4	24.3	
595.3	CARBONDALE	COLCHESTER	COAL	2.3	39.7	BASE OF CARBONDALE

MAPID: 05723412000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 8 **QUARTERS/FOOTAGES:** 1195' S line, 65' E line
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.407847 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.514108 **DATE COLLECTED:** 0 / 0 / 1961
SURFACE ELEVATION (FT.): 610.0 **LOGGED (FT.):** 30.2 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
582.2	CARBONDALE	COLCHESTER	COAL	2.3	27.8	BASE OF CARBONDALE

MAPID: 05723414000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 8 **QUARTERS/FOOTAGES:** 1340' S line, 2600' W line
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.417436 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.514515 **DATE COLLECTED:** 0 / 0 / 1961
SURFACE ELEVATION (FT.): 630.0 **LOGGED (FT.):** 63.3 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
569.4	CARBONDALE	COLCHESTER	COAL	2.7	60.6	BASE OF CARBONDALE

MAPID: 05723415000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 8 **QUARTERS/FOOTAGES:** 1340' S line, 0' W line
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.426833 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.514522 **DATE COLLECTED:** 0 / 0 / 1961
SURFACE ELEVATION (FT.): 631.0 **LOGGED (FT.):** 32.9 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.6	CARBONDALE	COLCHESTER	COAL	2.5	30.4	BASE OF CARBONDALE

MAPID: 05723417000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 8 **QUARTERS/FOOTAGES:** 2250' S line, 115' E line
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.407968 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.517021 **DATE COLLECTED:** 0 / 0 / 1961
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 59.2 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
541.2	CARBONDALE	COLCHESTER	COAL	0.4	58.8	BASE OF CARBONDALE

MAPID: 05723418000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 8 **QUARTERS/FOOTAGES:** 2330' S line, 1270' E line
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.41214 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.517243 **DATE COLLECTED:** 0 / 0 / 1961
SURFACE ELEVATION (FT.): 543.0 **LOGGED (FT.):** 51.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
494.3			COAL	2.3	48.7	

MAPID: 05723419000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 8 **QUARTERS/FOOTAGES:** 2324' S line, 2608' W line
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.417371 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.51723 **DATE COLLECTED:** 0 / 0 / 1961
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 61.5 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
540.8	CARBONDALE	COLCHESTER	COAL	2.3	59.2	BASE OF CARBONDALE

MAPID: 05723420000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 8 **QUARTERS/FOOTAGES:** 2410' S line, 215' W line
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.426019 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.517472 **DATE COLLECTED:** 0 / 0 / 1961
SURFACE ELEVATION (FT.): 625.0 **LOGGED (FT.):** 41.7 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
586.0	CARBONDALE	COLCHESTER	COAL	2.7	39.0	BASE OF CARBONDALE

MAPID: 05723421000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 8 **QUARTERS/FOOTAGES:** 2650' S line, 1290' W line
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.422123 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.518132 **DATE COLLECTED:** 0 / 0 / 1961
SURFACE ELEVATION (FT.): 630.0 **LOGGED (FT.):** 40.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
592.5	CARBONDALE	COLCHESTER	COAL	2.5	37.5	BASE OF CARBONDALE

MAPID: 05723422000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 8 **QUARTERS/FOOTAGES:** 3935' S line, 930' E line
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.410824 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.52167 **DATE COLLECTED:** 0 / 0 / 1961
SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 57.3 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
539.8	SPOON	ROCK ISLAND	COAL	2.2	55.2	

MAPID: 05723426000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 8 QUARTERS/FOOTAGES: 3850' S line, 505' W line

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.424918 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.521446 DATE COLLECTED: 0 / 0 / 1961

SURFACE ELEVATION (FT.): 565.0 LOGGED (FT.): 49.3 LOG TYPE: Drillers Log

SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
520.0	ABBOTT	POPE CREEK	COAL	4.3	45.0	

MAPID: 05786559000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 8 QUARTERS/FOOTAGES: 1' S line, 660' E line of SW SW

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.424466 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.510826 DATE COLLECTED: 6 / 8 / 1960

SURFACE ELEVATION (FT.): 638.1 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A210 WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
638.1	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
630.1	PLEISTOCENE		CLAY	11.0	8.0	
619.1	PLEISTOCENE		CLAY	10.0	19.0	
609.1	CARBONDALE		SHALE	14.0	29.0	SOFT
595.1	CARBONDALE		DARK SHALE	1.0	43.0	VERY HARD
594.1	CARBONDALE		DARK SHALE	6.0	44.0	SOFT
588.1	CARBONDALE		MICACEOUS SHALE	14.0	50.0	SOFT
574.1	CARBONDALE	COLCHESTER	COAL	2.3	64.0	GOOD
571.8	CARBONDALE		UNDERCLAY	0.8	66.3	

MAPID: 05786818000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 8 QUARTERS/FOOTAGES: 80' S line, 660' W line of NW SE

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.414842 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.514648 DATE COLLECTED: 6 / 20 / 1960

SURFACE ELEVATION (FT.): 594.9 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A2642 WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
594.9	PLEISTOCENE		CLAY	7.0	0.0	
587.9	CARBONDALE		BLACK SHALE	5.0	7.0	HARD
582.9	CARBONDALE		SANDY SHALE	44.0	12.0	SOFT
538.9	CARBONDALE	COLCHESTER	COAL	2.2	56.0	GOOD
536.7	CARBONDALE		UNDERCLAY	1.8	58.2	

MAPID: 05786832000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 8 QUARTERS/FOOTAGES: 660' S line, 660' E line of SE NW
 QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.419503 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.519868 DATE COLLECTED: 6 / 20 / 1960
 SURFACE ELEVATION (FT.): 617.5 LOGGED (FT.): 42.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE A337 WELL TYPE: Coal Test
 COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
617.5	PLEISTOCENE		CLAY	10.0	0.0	
607.5	PLEISTOCENE		CLAY	5.0	10.0	
602.5	PLEISTOCENE		CLAY	10.0	15.0	
592.5	CARBONDALE		SHALE	13.0	25.0	
579.5	CARBONDALE	COLCHESTER	COAL	2.3	38.0	GOOD
577.2	CARBONDALE		UNDERCLAY	1.8	40.3	

MAPID: 05786560000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 9 QUARTERS/FOOTAGES: 33' S line, 643' W line of SW SE
 QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.395651 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.5106 DATE COLLECTED: 9 / 8 / 1964
 SURFACE ELEVATION (FT.): 630.9 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE A222 WELL TYPE: Coal Test
 COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.9	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
619.9	PLEISTOCENE		CLAY	8.0	11.0	
611.9	CARBONDALE		DARK SHALE	23.0	19.0	SOFT
588.9	CARBONDALE		BLACK SHALE	3.0	42.0	
585.9	CARBONDALE		GRAY SHALE	17.0	45.0	SOFT
568.9	CARBONDALE	COLCHESTER	COAL	2.0	62.0	GOOD
566.9	CARBONDALE		UNDERCLAY	1.0	64.0	

MAPID: 05786815000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 9 QUARTERS/FOOTAGES: 0' S line, 660' E line of SW SW
 QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.405197 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.510751 DATE COLLECTED: 6 / 15 / 1960
 SURFACE ELEVATION (FT.): 622.4 LOGGED (FT.): 38.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE A268 WELL TYPE: Coal Test
 COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.4	PLEISTOCENE		CLAY	10.0	0.0	
612.4	PLEISTOCENE		CLAY	5.0	10.0	
607.4	PLEISTOCENE		CLAY	5.0	15.0	
602.4	CARBONDALE		SHALE	15.0	20.0	
587.4	CARBONDALE	COLCHESTER	CAVITY	2.0	35.0	
585.4	CARBONDALE		UNDERCLAY	1.0	37.0	

MAPID: 05786816000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 9 QUARTERS/FOOTAGES: 30' S line, 100' W line of SW SW
 QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.407313 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.510887 DATE COLLECTED: 6 / 15 / 1960
 SURFACE ELEVATION (FT.): 629.1 LOGGED (FT.): 53.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE A217 WELL TYPE: Coal Test
 COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.1	PLEISTOCENE		CLAY	15.0	0.0	
614.1	PLEISTOCENE		CLAY	10.0	15.0	
604.1	PLEISTOCENE		CLAY	3.0	25.0	
601.1	CARBONDALE		LIMESTONE	1.0	28.0	
600.1	CARBONDALE		BLACK SHALE	3.0	29.0	HARD
597.1	CARBONDALE		SHALE	17.0	32.0	SOFT
580.1	CARBONDALE	COLCHESTER	COAL	2.2	49.0	GOOD
577.9	CARBONDALE		UNDERCLAY	1.8	51.2	

MAPID: 05786833000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 9 QUARTERS/FOOTAGES: 660' S line, 0' E line of SE NE

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.388242 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.519504 DATE COLLECTED: 1 / 20 / 1960

SURFACE ELEVATION (FT.): 630.2 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A348 WELL TYPE: Coal Test

COMMENT: MARIETTA AREA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.2	PLEISTOCENE		CLAY	20.0	0.0	
610.2	PLEISTOCENE		CLAY	6.0	20.0	
604.2	PLEISTOCENE		SAND	4.0	26.0	
600.2	PLEISTOCENE		CLAY	17.0	30.0	
583.2	PLEISTOCENE		SAND	3.0	47.0	
580.2	PLEISTOCENE		CLAY	7.0	50.0	
573.2	CARBONDALE		DARK SHALE	4.7	57.0	
568.5	CARBONDALE	COLCHESTER	COAL	2.0	61.7	FAIR
566.5	CARBONDALE		UNDERCLAY	1.3	63.7	

MAPID: 05786828000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 10 QUARTERS/FOOTAGES: SW SW

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.38583 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.512086 DATE COLLECTED: 1 / 11 / 1961

SURFACE ELEVATION (FT.): 631.8 LOGGED (FT.): 58.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE B201 WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
631.8	PLEISTOCENE		UNCONSOLIDATED	14.0	0.0	
617.8	PLEISTOCENE		CLAY	8.0	14.0	
609.8	CARBONDALE		DARK SHALE	12.0	22.0	
597.8	CARBONDALE		ROCK	0.5	34.0	
597.3	CARBONDALE		BLACK SHALE	4.5	34.5	
592.8	CARBONDALE		GRAY SHALE	16.0	39.0	
576.8	CARBONDALE	COLCHESTER	COAL	2.0	55.0	
574.8	CARBONDALE		UNDERCLAY	1.0	57.0	

MAPID: 05786829000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 10 QUARTERS/FOOTAGES: NW SW

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.385815 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.515775 DATE COLLECTED: 1 / 10 / 1960

SURFACE ELEVATION (FT.): 606.6 LOGGED (FT.): 101.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE B303 WELL TYPE: Coal Test

COMMENT: MARIETTA AREA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
606.6	PLEISTOCENE		UNCONSOLIDATED	18.0	0.0	
588.6	PLEISTOCENE		CLAY	1.0	18.0	
587.6	PLEISTOCENE		SAND	3.0	19.0	
584.6	PLEISTOCENE		CLAY	10.0	22.0	
574.6	CARBONDALE		DARK SHALE	4.0	32.0	
570.6	CARBONDALE		MICACEOUS SHALE	13.0	36.0	
557.6	CARBONDALE		SANDSTONE	3.0	49.0	
554.6	CARBONDALE		SHALE	3.8	52.0	
550.8	CARBONDALE		LIMESTONE	1.2	55.8	
549.6	CARBONDALE		SHALE	1.0	57.0	
548.6	CARBONDALE	COLCHESTER	COAL	0.6	58.0	BLOOM
548.0	TRADEWATER		SHALE	3.4	58.6	SOFT
544.6	TRADEWATER		LIMESTONE	1.2	62.0	HARD
543.4	TRADEWATER		SHALE	0.8	63.2	
542.6	TRADEWATER		SHALE	3.5	64.0	SOFT
539.1	TRADEWATER		DARK SHALE	0.5	67.5	
538.6	TRADEWATER			0.4	68.0	
538.2	TRADEWATER		UNDERCLAY	1.1	68.4	
537.1	TRADEWATER		GRAY SHALE	10.5	69.5	
526.6	TRADEWATER		DARK SHALE	3.2	80.0	
523.4	TRADEWATER		LIMESTONE	0.4	83.2	
523.0	TRADEWATER		SHALE	3.0	83.6	
520.0	TRADEWATER		SANDSTONE	9.4	86.6	
510.6	TRADEWATER		BLACK SHALE	0.7	96.0	
509.9	TRADEWATER	ROCK ISLAND	COAL	0.6	96.7	BLOOM
509.3	TRADEWATER		UNDERCLAY	3.8	97.3	

MAPID: 05786825000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 14 QUARTERS/FOOTAGES: 0' S line, 330' W line of NW SW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.367924 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.49883 DATE COLLECTED: 4 / 29 / 1968
 SURFACE ELEVATION (FT.): 642.0 LOGGED (FT.): 83.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE B109NI WELL TYPE: Coal Test
 COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
642.0	PLEISTOCENE		CLAY	16.0	0.0	
626.0	CARBONDALE		SHALE	44.0	16.0	
582.0	CARBONDALE		BLACK SHALE	2.0	60.0	SOFT
580.0	CARBONDALE		DARK SHALE	18.0	62.0	
562.0	CARBONDALE	COLCHESTER	COAL	1.6	80.0	
560.4	CARBONDALE		UNDERCLAY	1.4	81.6	

MAPID: 05786827000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 14 QUARTERS/FOOTAGES: 610' S line, 270' W line of NW NW
 QUADRANGLE: BLYTON LONGITUDE: -90.367894 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.507684 DATE COLLECTED: 4 / 29 / 1968
 SURFACE ELEVATION (FT.): 572.7 LOGGED (FT.): 28.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE B159FK WELL TYPE: Coal Test
 COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
572.7	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
564.7	PLEISTOCENE		UNKNOWN	1.3	8.0	SHELLY COAL
563.4	CARBONDALE		GRAY SHALE	15.7	9.3	
547.7	CARBONDALE	COLCHESTER	COAL	2.0	25.0	
545.7	CARBONDALE		UNDERCLAY	1.0	27.0	

MAPID: 05786823000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 15 QUARTERS/FOOTAGES: 125' S line, 215' E line of SW SE

QUADRANGLE: SMITHFIELD LONGITUDE: -90.374701 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.495673 DATE COLLECTED: 9 / 16 / 1964

SURFACE ELEVATION (FT.): 613.9 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE B62 WELL TYPE: Coal Test

COMMENT: MARIETTA AREA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
613.9	PLEISTOCENE		CLAY	8.0	0.0	
605.9	CARBONDALE		GRAY SHALE	20.0	8.0	SOFT
585.9	CARBONDALE		DARK SHALE	4.0	28.0	SOFT
581.9	CARBONDALE		BLACK SHALE	2.0	32.0	
579.9	CARBONDALE		GRAY SHALE	18.0	34.0	SOFT
561.9	CARBONDALE	COLCHESTER	COAL	1.8	52.0	GOOD
560.1	CARBONDALE		UNDERCLAY	1.3	53.8	

MAPID: 05786824000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 15 QUARTERS/FOOTAGES: NW SW

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.385779 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.501019 DATE COLLECTED: 8 / 14 / 1974

SURFACE ELEVATION (FT.): 653.9 LOGGED (FT.): 158.0 LOG TYPE: Drillers Log

SOURCE: AMAX B103 WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.9	PLEISTOCENE		UNCONSOLIDATED	23.0	0.0	
630.9	PLEISTOCENE		CLAY	4.0	23.0	
626.9	CARBONDALE		GRAY SHALE	30.0	27.0	
596.9	CARBONDALE		DARK SHALE	2.6	57.0	
594.3	CARBONDALE		LIMESTONE	1.4	59.6	
592.9	CARBONDALE		BLACK SHALE	2.0	61.0	
590.9	CARBONDALE		LIMESTONE	1.8	63.0	
589.1	CARBONDALE		GRAY SHALE	14.5	64.8	
574.6	CARBONDALE	COLCHESTER	COAL	2.1	79.3	
572.5	TRADEWATER		GRAY SHALE	20.6	81.4	
551.9	TRADEWATER		LIMESTONE	0.9	102.0	
551.0	TRADEWATER		MICACEOUS SHALE	29.1	102.9	
521.9	TRADEWATER		SANDY SHALE	12.0	132.0	
509.9	TRADEWATER		DARK SHALE	8.8	144.0	
501.1	TRADEWATER	ROCK ISLAND	COAL	1.6	152.8	
499.5	TRADEWATER		UNDERCLAY	3.6	154.4	

MAPID: 05786826000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 15 QUARTERS/FOOTAGES: 0' N line, 415' W line of NW NE

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.37705 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.509938 DATE COLLECTED: 4 / 30 / 1968

SURFACE ELEVATION (FT.): 652.1 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE B155BB WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
652.1	PLEISTOCENE		CLAY	18.0	0.0
634.1	CARBONDALE		GRAY SHALE	44.0	18.0
590.1	CARBONDALE		BLACK SHALE	6.0	62.0
584.1	CARBONDALE		BLACK SHALE	2.0	68.0
582.1	CARBONDALE		GRAY SHALE	15.0	70.0
567.1	CARBONDALE	COLCHESTER	COAL	2.0	85.0
565.1	CARBONDALE		UNDERCLAY	1.0	87.0

MAPID: 05786558000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 16 QUARTERS/FOOTAGES: 1' S line, 660' E line of SW NE

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.395453 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.503135 DATE COLLECTED: 9 / 11 / 1964

SURFACE ELEVATION (FT.): 650.5 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A122 WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN COMMENT	
650.5	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0	
645.5	PLEISTOCENE		CLAY	7.0	5.0	
638.5	PLEISTOCENE		CLAY	18.0	12.0	
620.5	CARBONDALE		SHALE	19.0	30.0	
601.5	CARBONDALE		BLACK SHALE	6.0	49.0	
595.5	CARBONDALE		BLACK SHALE	2.0	55.0	HARD
593.5	CARBONDALE		GRAY SHALE	17.0	57.0	SOFT
576.5	CARBONDALE	COLCHESTER	COAL	2.3	74.0	
574.2	CARBONDALE		UNDERCLAY	1.8	76.3	

MAPID: 05786813000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 16 QUARTERS/FOOTAGES: NW NW

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.405249 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.508918 DATE COLLECTED: 1 / 16 / 1961

SURFACE ELEVATION (FT.): 637.8 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A169 WELL TYPE: Coal Test

COMMENT: MARIETTA AREA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
637.8	PLEISTOCENE		UNCONSOLIDATED	2.0	0.0
635.8	PLEISTOCENE		CLAY	18.0	2.0
617.8	PLEISTOCENE		CLAY	14.0	20.0
603.8	CARBONDALE		SHALE	11.0	34.0
592.8	CARBONDALE		SANDSTONE	1.0	45.0
591.8	CARBONDALE		BLACK SHALE	2.0	46.0
589.8	CARBONDALE		BLACK SHALE	1.0	48.0
588.8	CARBONDALE		SANDSTONE	1.0	49.0
587.8	CARBONDALE		SHALE	19.0	50.0
568.8	CARBONDALE	COLCHESTER	COAL	1.8	69.0
567.0	CARBONDALE		UNDERCLAY	1.2	70.8

MAPID: 05786817000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 16 QUARTERS/FOOTAGES: NW NE

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.395535 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.508666 DATE COLLECTED: 1 / 17 / 1961

SURFACE ELEVATION (FT.): 636.0 LOGGED (FT.): 66.7 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A221 WELL TYPE: Coal Test

COMMENT: MARIETTA AREA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
636.0	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0
616.0	CARBONDALE		SHALE	23.0	20.0
593.0	CARBONDALE		ROCK	0.7	43.0
592.3	CARBONDALE		BLACK SHALE	2.3	43.7
590.0	CARBONDALE		BLACK SHALE	0.8	46.0
589.2	CARBONDALE		BLACK SHALE	0.8	46.8
588.5	CARBONDALE		GRAY SHALE	13.1	47.5 SOFT
575.4	CARBONDALE	COLCHESTER	COAL	2.1	60.6
573.3	CARBONDALE		UNDERCLAY	4.0	62.7

MAPID: 05723428000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 17 **QUARTERS/FOOTAGES:** 1285' N line, 20' E line
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.407754 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.507266 **DATE COLLECTED:** 0 / 0 / 1961
SURFACE ELEVATION (FT.): 632.0 **LOGGED (FT.):** 51.5 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
582.7	CARBONDALE	COLCHESTER	COAL	2.3	49.3	BASE OF CARBONDALE

MAPID: 05723429000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 17 **QUARTERS/FOOTAGES:** 1235' N line, 1540' E line
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.41325 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.507409 **DATE COLLECTED:** 0 / 0 / 1961
SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 31.6 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
541.1	SPOON	ROCK ISLAND	COAL	2.7	28.9	

MAPID: 05723431000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 17 **QUARTERS/FOOTAGES:** 620' N line, 1530' W line
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.421349 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.509109 **DATE COLLECTED:** 0 / 0 / 1961
SURFACE ELEVATION (FT.): 628.0 **LOGGED (FT.):** 64.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
566.2	CARBONDALE	COLCHESTER	COAL	2.2	61.8	BASE OF CARBONDALE

MAPID: 05786556000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 17 QUARTERS/FOOTAGES: 1' N line, 1' W line of SE SE

QUADRANGLE: ADAIR LONGITUDE: -90.412489 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.499829 DATE COLLECTED: 6 / 6 / 1960

SURFACE ELEVATION (FT.): 644.9 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A65 WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.9	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
634.9	PLEISTOCENE		CLAY	5.0	10.0	
629.9	PLEISTOCENE		CLAY	10.0	15.0	
619.9	CARBONDALE		SHALE	20.0	25.0	SOFT
599.9	CARBONDALE	COLCHESTER	COAL	1.3	45.0	FAIR
598.6	CARBONDALE		UNDERCLAY	2.0	46.3	
596.6	CARBONDALE		SHALE	20.0	48.3	SOFT
576.6	CARBONDALE		SANDY SHALE	15.0	68.3	
561.6	SPOON	ROCK ISLAND	COAL	1.0	83.3	GOOD
560.6	SPOON		UNDERCLAY	1.7	84.3	

MAPID: 05786808000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 17 QUARTERS/FOOTAGES: SW SE

QUADRANGLE: ADAIR LONGITUDE: -90.41489 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.498012 DATE COLLECTED: 6 / 6 / 1960

SURFACE ELEVATION (FT.): 652.7 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A13 WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
652.7	PLEISTOCENE		CLAY	9.0	0.0	
643.7	PLEISTOCENE		CLAY	20.0	9.0	
623.7	PLEISTOCENE		CLAY	19.0	29.0	
604.7			SHALE	19.0	48.0	HARD
585.7			BROWN LIMESTONE	1.0	67.0	
584.7			SANDY SHALE	27.0	68.0	
557.7			COAL	1.0	95.0	
556.7			UNDERCLAY	1.0	96.0	

MAPID: 05786810000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 17 **QUARTERS/FOOTAGES:** 0' S line, 660' E line of NW SW
QUADRANGLE: ADAIR **LONGITUDE:** -90.424454 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.499872 **DATE COLLECTED:** 4 / 29 / 1960
SURFACE ELEVATION (FT.): 648.7 **LOGGED (FT.):** 49.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE A110 **WELL TYPE:** Coal Test
COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.7	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
639.7	PLEISTOCENE		CLAY	10.0	9.0	
629.7	PLEISTOCENE		CLAY	12.0	19.0	
617.7	CARBONDALE		SHALE	14.0	31.0	
603.7	CARBONDALE	COLCHESTER	COAL	2.2	45.0	GOOD
601.5	CARBONDALE		UNDERCLAY	1.8	47.2	

MAPID: 05786812000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 17 **QUARTERS/FOOTAGES:** 0' N line, 660' W line of NE NE
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.410097 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.510871 **DATE COLLECTED:** 6 / 16 / 1960
SURFACE ELEVATION (FT.): 629.6 **LOGGED (FT.):** 43.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE A166 **WELL TYPE:** Coal Test
COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.6	PLEISTOCENE		CLAY	10.0	0.0	
619.6	PLEISTOCENE		CLAY	5.0	10.0	
614.6	PLEISTOCENE		CLAY	10.0	15.0	
604.6	CARBONDALE		SHALE	14.0	25.0	SOFT
590.6	CARBONDALE	COLCHESTER	COAL	2.1	39.0	GOOD
588.5	CARBONDALE		UNDERCLAY	1.9	41.1	

MAPID: 05723434000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 18 **QUARTERS/FOOTAGES:** 2610' N line, 40' E line
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.427019 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.503621 **DATE COLLECTED:** 0 / 0 / 1961
SURFACE ELEVATION (FT.): 653.0 **LOGGED (FT.):** 61.7 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
593.4	CARBONDALE	COLCHESTER	COAL	2.1	59.6	BASE OF CARBONDALE

MAPID: 05723437000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 18 **QUARTERS/FOOTAGES:** 1980' N line, 2630' E line
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.436382 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.505273 **DATE COLLECTED:** 0 / 0 / 1961
SURFACE ELEVATION (FT.): 620.0 **LOGGED (FT.):** 60.3 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.5	SPOON	DELONG	COAL	0.8	59.5	

MAPID: 05723441000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 18 **QUARTERS/FOOTAGES:** 19' N line, 1295' E line
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.431561 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.510727 **DATE COLLECTED:** 0 / 0 / 1961
SURFACE ELEVATION (FT.): 633.0 **LOGGED (FT.):** 52.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COMPANY SKETCH MAP-DLR

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
583.2	CARBONDALE	COLCHESTER	COAL	2.2	49.8	BASE OF CARBONDALE

MAPID: 05786557000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 18 **QUARTERS/FOOTAGES:** 1' N line, 660' W line of SE NE
QUADRANGLE: BUSHNELL EAST **LONGITUDE:** -90.429593 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.50715 **DATE COLLECTED:** 6 / 3 / 1960
SURFACE ELEVATION (FT.): 652.9 **LOGGED (FT.):** 69.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE A108 **WELL TYPE:** Coal Test
COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
652.9	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
646.9	PLEISTOCENE		CLAY	14.0	6.0	
632.9	PLEISTOCENE		CLAY	10.0	20.0	
622.9	CARBONDALE		SANDY SHALE	35.0	30.0	SOFT
587.9	CARBONDALE	COLCHESTER	COAL	2.2	65.0	GOOD
585.7	CARBONDALE		UNDERCLAY	1.8	67.2	

MAPID: 05786809000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 18 QUARTERS/FOOTAGES: NW SW

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.444219 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.501552 DATE COLLECTED: 4 / 21 / 1960

SURFACE ELEVATION (FT.): 631.4 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A103 WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
631.4	PLEISTOCENE		CLAY	25.0	0.0	
606.4	PLEISTOCENE		CLAY	10.0	25.0	
596.4	PLEISTOCENE		CLAY	15.0	35.0	
581.4			SANDY SHALE	10.0	50.0	SOFT
571.4			SHALE	5.0	60.0	HARD
566.4			COAL	0.7	65.0	SOFT #2?
565.7			UNDERCLAY	1.3	65.7	

MAPID: 05786811000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 18 QUARTERS/FOOTAGES: NE NE

QUADRANGLE: BUSHNELL EAST LONGITUDE: -90.429252 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.508943 DATE COLLECTED: 4 / 21 / 1960

SURFACE ELEVATION (FT.): 644.5 LOGGED (FT.): 106.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A159 WELL TYPE: Coal Test

COMMENT: MARIETTA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.5	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
633.5	PLEISTOCENE		CLAY	14.0	11.0	
619.5	PLEISTOCENE		CLAY	5.0	25.0	
614.5	CARBONDALE		MICACEOUS SHALE	5.0	30.0	
609.5	CARBONDALE		COAL	1.3	35.0	
608.2	CARBONDALE		MICACEOUS SHALE	1.8	36.3	
606.5	CARBONDALE		SANDY SHALE	17.0	38.0	
589.5	CARBONDALE	COLCHESTER	COAL	2.3	55.0	
587.2	CARBONDALE		UNDERCLAY	1.7	57.3	SOFT
585.5	TRADEWATER		SANDY SHALE	3.0	59.0	HARD
582.5	TRADEWATER		LIMESTONE	2.0	62.0	
580.5	TRADEWATER		SANDY SHALE	29.0	64.0	HARD
551.5	TRADEWATER		LIMESTONE	2.0	93.0	HARD
549.5	TRADEWATER		SANDY SHALE	10.0	95.0	HARD
539.5	TRADEWATER		LIMESTONE	1.0	105.0	HARD

MAPID: 05786640000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 19 QUARTERS/FOOTAGES: 0' N line, 0' W line of NW SW
 QUADRANGLE: ADAIR LONGITUDE: -90.447416 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.488721 DATE COLLECTED: 12 / 11 / 1961
 SURFACE ELEVATION (FT.): 684.9 LOGGED (FT.): 84.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE YY501 WELL TYPE: Coal Test
 COMMENT: MARIETTA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.9	PLEISTOCENE		CLAY	11.0	0.0	
673.9	PLEISTOCENE		CLAY	13.0	11.0	
660.9	PLEISTOCENE		CLAY	43.0	24.0	
617.9	CARBONDALE		SHALE	13.0	67.0	HARD
604.9	CARBONDALE	COLCHESTER	COAL	2.1	80.0	GOOD
602.8	CARBONDALE		UNDERCLAY	1.9	82.1	

MAPID: 05786641000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 19 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE NE
 QUADRANGLE: ADAIR LONGITUDE: -90.431995 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.496196 DATE COLLECTED: 12 / 12 / 1961
 SURFACE ELEVATION (FT.): 665.6 LOGGED (FT.): 41.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE YY607 WELL TYPE: Coal Test
 COMMENT: MARIETTA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.6	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
658.6	PLEISTOCENE		CLAY	11.0	7.0	
647.6	PLEISTOCENE		CLAY	15.0	18.0	
632.6	CARBONDALE		SHALE	5.0	33.0	SOFT
627.6	CARBONDALE	COLCHESTER	COAL	1.8	38.0	GOOD
625.8	CARBONDALE		UNDERCLAY	1.2	39.8	

MAPID: 05786636000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 20 QUARTERS/FOOTAGES: 0' S line, 660' W line of SW SW
 QUADRANGLE: ADAIR LONGITUDE: -90.424569 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.481401 DATE COLLECTED: 9 / 25 / 1964
 SURFACE ELEVATION (FT.): 648.4 LOGGED (FT.): 41.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE YY410 WELL TYPE: Coal Test
 COMMENT: MARIETTA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.4	PLEISTOCENE		CLAY	7.0	0.0	
641.4	PLEISTOCENE		CLAY	9.0	7.0	
632.4	PLEISTOCENE		CLAY	9.0	16.0	
623.4	CARBONDALE		GRAY SHALE	12.0	25.0	SOFT
611.4	CARBONDALE	COLCHESTER	COAL	2.2	37.0	GOOD
609.2	CARBONDALE		UNDERCLAY	1.8	39.2	

MAPID: 05786638000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 20 QUARTERS/FOOTAGES: 660' S line, 0' W line of SW SW
 QUADRANGLE: ADAIR LONGITUDE: -90.426942 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.483234 DATE COLLECTED: 9 / 29 / 1964
 SURFACE ELEVATION (FT.): 653.8 LOGGED (FT.): 48.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE YY434 WELL TYPE: Coal Test
 COMMENT: MARIETTA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.8	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
647.8	PLEISTOCENE		CLAY	9.0	6.0	
638.8	PLEISTOCENE		CLAY	10.0	15.0	
628.8	CARBONDALE		SHALE	19.0	25.0	SOFT
609.8	CARBONDALE	COLCHESTER	COAL	2.3	44.0	
607.5	CARBONDALE		UNDERCLAY	1.8	46.3	

MAPID: 05701783000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 21 QUARTERS/FOOTAGES: 650' S line, 780' E line

QUADRANGLE: ADAIR LONGITUDE: -90.391059 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.482735 DATE COLLECTED: 2 / 6 / 1951

SURFACE ELEVATION (FT.): 630.9 LOGGED (FT.): 47.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.9			UNCONSOLIDATED	14.9	0.0	
616.0	CARBONDALE		SHALE	9.2	14.9	
606.8	CARBONDALE		SANDSTONE	20.9	24.1	
585.9	CARBONDALE	COLCHESTER	COAL	1.3	45.0	BASE OF CARBONDALE
584.6	SPOON		UNDERCLAY	1.0	46.3	

MAPID: 05701786000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 21 QUARTERS/FOOTAGES: 135' S line, 50' W line of SE

QUADRANGLE: ADAIR LONGITUDE: -90.397873 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.481462 DATE COLLECTED: 2 / 23 / 1951

SURFACE ELEVATION (FT.): 648.2 LOGGED (FT.): 71.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.2			UNCONSOLIDATED	49.9	0.0	
598.3	CARBONDALE	PURINGTON	SHALE	8.8	49.9	
589.5	CARBONDALE	OAK GROVE	LIMESTONE	6.0	58.7	3-FT SH PTG 1 FT FROM TOP
583.5	CARBONDALE	FRANCIS CREEK	SHALE	3.3	64.7	
580.2	CARBONDALE	COLCHESTER	COAL	2.5	68.0	BASE OF CARBONDALE
577.7	SPOON		UNDERCLAY	1.0	70.5	

MAPID: 05701787000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 21 QUARTERS/FOOTAGES: 225' N line, 40' W line of SE

QUADRANGLE: ADAIR LONGITUDE: -90.397843 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.487841 DATE COLLECTED: 2 / 21 / 1951

SURFACE ELEVATION (FT.): 654.0 LOGGED (FT.): 71.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.0			UNCONSOLIDATED	31.3	0.0	
622.7	CARBONDALE	PURINGTON	SHALE	13.0	31.3	
609.7	CARBONDALE	JAKE CREEK	SANDSTONE	4.0	44.3	
605.7	CARBONDALE	FRANCIS CREEK	SHALE	19.7	48.3	
586.0	CARBONDALE	COLCHESTER	COAL	2.5	68.0	BASE OF CARBONDALE
583.5	SPOON		UNDERCLAY	1.0	70.5	

MAPID: 05786637000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 21 QUARTERS/FOOTAGES: 60' S line, 0' W line of SE SE

QUADRANGLE: ADAIR LONGITUDE: -90.393157 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.481152 DATE COLLECTED: 12 / 5 / 1961

SURFACE ELEVATION (FT.): 630.2 LOGGED (FT.): 84.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE YY423ZZ WELL TYPE: Coal Test

COMMENT: MARIETTA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.2	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
622.2	PLEISTOCENE		CLAY	50.0	8.0	
572.2	TRADEWATER		MICACEOUS SHALE	18.0	58.0	
554.2	TRADEWATER		ROCK	2.0	76.0	
552.2	TRADEWATER		SHALE	1.0	78.0	SOFT
551.2	TRADEWATER	ROCK ISLAND	COAL	1.2	79.0	GOOD
550.0	TRADEWATER		SHALE	3.8	80.2	

MAPID: 05786639000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 21 QUARTERS/FOOTAGES: 660' N line, 666' E line of SE NE
 QUADRANGLE: ADAIR LONGITUDE: -90.390569 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.490115 DATE COLLECTED: 12 / 5 / 1961
 SURFACE ELEVATION (FT.): 643.1 LOGGED (FT.): 47.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE YY549 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
643.1	PLEISTOCENE		CLAY	7.0	0.0	
636.1	PLEISTOCENE		CLAY	13.0	7.0	
623.1	PLEISTOCENE		CLAY	6.0	20.0	
617.1	CARBONDALE		DARK SHALE	18.0	26.0	SOFT
599.1	CARBONDALE	COLCHESTER	COAL	1.9	44.0	
597.2	CARBONDALE		UNDERCLAY	1.1	45.9	

MAPID: 05701789000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 22 QUARTERS/FOOTAGES: 28' S line, 360' W line
 QUADRANGLE: ADAIR LONGITUDE: -90.38696 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.480934 DATE COLLECTED: 1 / 30 / 1951
 SURFACE ELEVATION (FT.): 635.6 LOGGED (FT.): 75.3 LOG TYPE: Drillers Log
 SOURCE: MIDLAND ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.6			UNCONSOLIDATED	33.9	0.0	
601.7	CARBONDALE	FRANCIS CREEK	SHALE	10.4	33.9	
591.3	CARBONDALE	COLCHESTER	COAL	1.0	44.3	BASE OF CARBONDALE
590.3	SPOON		SHALE	9.6	45.3	
580.7	SPOON	GREENBUSH	COAL	1.0	54.9	
579.7	SPOON		SHALE	9.1	55.9	
570.6	SPOON	WILEY	COAL	2.5	65.0	
568.1	SPOON		UNDERCLAY	1.0	67.5	
567.1			SANDSTONE	6.8	68.5	

MAPID: 0570179000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 22 QUARTERS/FOOTAGES: 1065' N line, 215' W line of NE SE

QUADRANGLE: SMITHFIELD LONGITUDE: -90.373284 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.485011 DATE COLLECTED: 1 / 19 / 1951

SURFACE ELEVATION (FT.): 614.8 LOGGED (FT.): 112.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
614.8			UNCONSOLIDATED	14.7	0.0	
600.1	CARBONDALE	FRANCIS CREEK	SHALE	22.0	14.7	
578.1	CARBONDALE	COLCHESTER	COAL	1.9	36.7	BASE OF CARBONDALE
576.2	SPOON		UNDERCLAY	1.0	38.6	
575.2	SPOON		SHALE	15.7	39.6	
559.5	SPOON	GREENBUSH	COAL	0.6	55.3	
558.9	SPOON		SHALE	11.8	55.9	
547.1	SPOON	WILEY	COAL	0.3	67.7	
546.8	SPOON		SHALE	27.7	68.0	
519.1	SPOON	ROCK ISLAND	COAL	0.6	95.7	BASE OF SPOON
518.5			SANDSTONE	11.4	96.3	
507.1	SPOON		BLACK SHALE	0.5	107.7	
506.6			COAL	2.5	108.2	
504.1	SPOON		BLACK SHALE	1.0	110.7	
503.1	SPOON		UNDERCLAY	0.5	111.7	

MAPID: 05701791000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 22 QUARTERS/FOOTAGES: 375' N line, 760' W line of NE SE

QUADRANGLE: SMITHFIELD LONGITUDE: -90.371291 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.48688 DATE COLLECTED: 1 / 25 / 1951

SURFACE ELEVATION (FT.): 601.3 LOGGED (FT.): 102.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
601.3			UNCONSOLIDATED	14.7	0.0	
586.6	CARBONDALE	FRANCIS CREEK	SHALE	16.8	14.7	
569.8	CARBONDALE	COLCHESTER	COAL	2.5	31.5	BASE OF CARBONDALE
567.3	SPOON		UNDERCLAY	1.0	34.0	
566.3	SPOON		SHALE	20.3	35.0	
546.0	SPOON	WILEY	COAL	1.0	55.3	
545.0	SPOON		SHALE	39.0	56.3	
506.0	SPOON		BLACK SHALE	1.7	95.3	
504.3	SPOON	ROCK ISLAND	COAL	1.5	97.0	
502.8	SPOON		BLACK SHALE	1.5	98.5	
501.3			UNDERCLAY	2.5	100.0	

MAPID: 05701792000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 22 QUARTERS/FOOTAGES: 940' N line, 470' W line of SW

QUADRANGLE: ADAIR LONGITUDE: -90.386514 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.485581 DATE COLLECTED: 2 / 6 / 1951

SURFACE ELEVATION (FT.): 638.4 LOGGED (FT.): 43.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
638.4			UNCONSOLIDATED	14.7	0.0	
623.7	CARBONDALE	JAKE CREEK	SANDSTONE	13.6	14.7	
610.1	CARBONDALE	FRANCIS CREEK	SHALE	11.7	28.3	
598.4	CARBONDALE	COLCHESTER	COAL	2.5	40.0	BASE OF CARBONDALE
595.9	SPOON		UNDERCLAY	1.0	42.5	

MAPID: 05701793000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 22 QUARTERS/FOOTAGES: 175' S line, 1320' W line

QUADRANGLE: ADAIR LONGITUDE: -90.383488 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.481271 DATE COLLECTED: 1 / 26 / 1951

SURFACE ELEVATION (FT.): 616.3 LOGGED (FT.): 101.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
616.3			UNCONSOLIDATED	15.7	0.0	
600.6	CARBONDALE	FRANCIS CREEK	SHALE	23.5	15.7	
577.1	CARBONDALE	COLCHESTER	COAL	0.6	39.2	BASE OF CARBONDALE
576.5	SPOON		SHALE	25.5	39.8	
551.0	SPOON		BLACK SHALE	1.0	65.3	
550.0	SPOON		SHALE	8.7	66.3	
541.3	SPOON	WILEY	COAL	2.5	75.0	
538.8	SPOON		UNDERCLAY	0.5	77.5	
538.3	SPOON		SANDSTONE	12.0	78.0	
526.3	SPOON		SHALE	11.0	90.0	

MAPID: 05786687000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 22 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SW
 QUADRANGLE: ADAIR LONGITUDE: -90.388224 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.484542 DATE COLLECTED: 7 / 24 / 1961
 SURFACE ELEVATION (FT.): 648.4 LOGGED (FT.): 48.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE XX451J WELL TYPE: Coal Test
 COMMENT: MARIETTA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.4	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
641.4	PLEISTOCENE		CLAY	11.0	7.0	
630.4	PLEISTOCENE		CLAY	18.0	18.0	
612.4	CARBONDALE		SANDY SHALE	9.0	36.0	
603.4	CARBONDALE	COLCHESTER	COAL	1.9	45.0	GOOD
601.5	CARBONDALE		UNDERCLAY	1.1	46.9	

MAPID: 05786688000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 22 QUARTERS/FOOTAGES: 660' S line, 660' W line of NE SE
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.371664 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.48606 DATE COLLECTED: 7 / 18 / 1961
 SURFACE ELEVATION (FT.): 605.7 LOGGED (FT.): 101.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE XX483 WELL TYPE: Coal Test
 COMMENT: MARIETTA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
605.7	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0	
593.7	PLEISTOCENE		CLAY	7.0	12.0	
586.7	CARBONDALE		DARK SHALE	16.0	19.0	
570.7	CARBONDALE		COAL	1.0	35.0	FAIR, WILL NOT LOAD
569.7	CARBONDALE		MICACEOUS SHALE	10.0	36.0	SOFT
559.7	CARBONDALE		MICACEOUS SHALE	13.0	46.0	HARD
546.7	CARBONDALE		SANDY SHALE	4.0	59.0	
542.7	CARBONDALE		COAL	0.5	63.0	
542.2	CARBONDALE		MICACEOUS SHALE	30.5	63.5	SOFT
511.7	CARBONDALE		DARK SHALE	5.0	94.0	
506.7	CARBONDALE		COAL	1.0	99.0	GOOD
505.7	CARBONDALE		MICACEOUS SHALE	1.0	100.0	

MAPID: 05700050000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 23 QUARTERS/FOOTAGES: 332' S line, 992' W line

QUADRANGLE: SMITHFIELD LONGITUDE: -90.365802 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.481429 DATE COLLECTED: 10 / 0 / 1949

SURFACE ELEVATION (FT.): 577.0 LOGGED (FT.): 1400.0 LOG TYPE: Drillers Log

SOURCE: GRIGSBY, J. WELL TYPE: Dry Hole

COMMENT: SAMPLE DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
577.0			UNCONSOLIDATED	55.0	0.0	
522.0	SPOON		SANDSTONE	9.0	55.0	
513.0	SPOON	ROCK ISLAND	COAL	1.0	64.0	BASE OF SPOON
512.0	ABBOTT		SHALE	25.0	65.0	BS PENNSYLVANIAN;SDY + STY
487.0			ROCK	1310.0	90.0	MISSISSIPPIAN SALEM TO ORDOVICIAN ST PET

MAPID: 05700050000C VERSION: 2

PROJECT: NCRDS87

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 23 QUARTERS/FOOTAGES: 332' S line, 992' W line

QUADRANGLE: SMITHFIELD LONGITUDE: -90.365802 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 40.481429 DATE COLLECTED: 7 / 20 / 1949

SURFACE ELEVATION (FT.): 577.0 LOGGED (FT.): 90.0 LOG TYPE: Survey Sample Study

SOURCE: B.F. GRIGSBY WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
577.0			UNCONSOLIDATED	55.0	0.0	
522.0	SPOON		SANDSTONE	9.0	55.0	
513.0	SPOON	ROCK ISLAND	COAL	1.0	64.0	UNCERTAIN CORRELATION
512.0			SHALE	10.0	65.0	
502.0			UNCLASSIFIED	15.0	75.0	
487.0			UNCLASSIFIED	0.0	90.0	TYS OF MISS.

MAPID: 05701796000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 23 QUARTERS/FOOTAGES: 610' S line, 1380' W line

QUADRANGLE: SMITHFIELD LONGITUDE: -90.364392 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.482195 DATE COLLECTED: 1 / 16 / 1951

SURFACE ELEVATION (FT.): 595.2 LOGGED (FT.): 104.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
595.2			UNCONSOLIDATED	14.7	0.0	
580.5	SPOON		SHALE	22.3	14.7	
558.2	SPOON	DELONG	COAL	1.0	37.0	
557.2	SPOON		SHALE	12.3	38.0	
544.9	SPOON	ROCK ISLAND	COAL	1.0	50.3	
543.9	SPOON		UNDERCLAY	1.0	51.3	BASE OF SPOON
542.9	ABBOTT		SHALE	23.0	52.3	
519.9	ABBOTT		BLACK SHALE	2.5	75.3	
517.4	ABBOTT		SANDSTONE	20.2	77.8	
497.2	ABBOTT		BLACK SHALE	0.3	98.0	
496.9	ABBOTT		SHALE	5.9	98.3	

MAPID: 05701797000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 23 QUARTERS/FOOTAGES: 1220' S line, 435' W line

QUADRANGLE: SMITHFIELD LONGITUDE: -90.367784 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.483879 DATE COLLECTED: 1 / 14 / 1951

SURFACE ELEVATION (FT.): 588.5 LOGGED (FT.): 85.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
588.5			UNCONSOLIDATED	12.3	0.0	
576.2	SPOON		SHALE	12.2	12.3	
564.0	SPOON	WILEY	COAL	2.4	24.5	
561.6	SPOON		UNDERCLAY	1.0	26.9	
560.6	SPOON		SHALE	23.4	27.9	
537.2	SPOON	ROCK ISLAND	COAL	1.0	51.3	
536.2	SPOON		UNDERCLAY	1.0	52.3	BASE OF SPOON
535.2	ABBOTT		SHALE	21.0	53.3	
514.2	ABBOTT		LIMESTONE	5.0	74.3	
509.2	ABBOTT		BLACK SHALE	1.2	79.3	FISSILE
508.0	ABBOTT	TARTER	COAL	4.0	80.5	
504.0	ABBOTT		UNDERCLAY	1.0	84.5	

MAPID: 05786686000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 23 QUARTERS/FOOTAGES: 660' S line, 660' E line of SW SW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.366963 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.482334 DATE COLLECTED: 7 / 19 / 1961
 SURFACE ELEVATION (FT.): 564.6 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE XX435Z WELL TYPE: Coal Test
 COMMENT: MARIETTA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
564.6	PLEISTOCENE		CLAY	8.0	0.0	
556.6	PLEISTOCENE		CLAY	5.0	8.0	
551.6	PLEISTOCENE		CLAY	9.0	13.0	
542.6			SHALE	35.0	22.0	SOFT
507.6			LIMESTONE	3.0	57.0	
504.6			COAL	0.7	60.0	GOOD
503.9			SHALE	9.3	60.7	SOFT, WHITE
494.6			COAL	1.0	70.0	FAIR
493.6			GRAY SHALE	11.0	71.0	SOFT
482.6			LIMESTONE	6.0	82.0	

MAPID: 05786689000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 23 QUARTERS/FOOTAGES: 165' N line, 0' W line of NW NW
 QUADRANGLE: SMITHFIELD LONGITUDE: -90.369218 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.494795 DATE COLLECTED: 8 / 30 / 1963
 SURFACE ELEVATION (FT.): 600.9 LOGGED (FT.): 37.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE XX584D WELL TYPE: Coal Test
 COMMENT: MARIETTA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.9	PLEISTOCENE		CLAY	4.0	0.0	
596.9	PLEISTOCENE		CLAY	15.0	4.0	
581.9			DARK SHALE	14.0	19.0	SOFT
567.9			COAL	1.8	33.0	FAIR, #2?
566.1			UNDERCLAY	2.3	34.8	

MAPID: 05700051000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 24 QUARTERS/FOOTAGES: NE SE SW

QUADRANGLE: SMITHFIELD LONGITUDE: -90.341719 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.483252 DATE COLLECTED: 2 / 27 / 1916

SURFACE ELEVATION (FT.): 486.0 LOGGED (FT.): 669.0 LOG TYPE: Drillers Log

SOURCE: SCHNELL, J. N., + BOTKINS, H. I. WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
486.0			UNCONSOLIDATED	8.0	0.0	
478.0	SPOON		SHALE	6.0	8.0	BL.FIS
472.0	SPOON	ROCK ISLAND	COAL	2.0	14.0	BASE OF SPOON
470.0	ABBOTT		SHALE	9.0	16.0	BL.FIS
461.0	ABBOTT		BLACK SHALE	23.0	25.0	BS PENNSYLVANIAN; BK
438.0			ROCK	621.0	48.0	MISSISSIPPIAN ST LOUIS? TO DEVONIAN

MAPID: 05701798000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 26 QUARTERS/FOOTAGES: 150' S line, 165' W line of NW

QUADRANGLE: SMITHFIELD LONGITUDE: -90.368838 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.473656 DATE COLLECTED: 1 / 9 / 1951

SURFACE ELEVATION (FT.): 596.0 LOGGED (FT.): 71.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
596.0			UNCONSOLIDATED	46.7	0.0	
549.3	SPOON		SHALE	19.7	46.7	
529.6	SPOON	ROCK ISLAND	COAL	4.5	66.4	0.5 FT PB.FIS SH PTG
525.1	SPOON		UNDERCLAY	1.0	70.9	

MAPID: 05786685000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 26 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NW

QUADRANGLE: SMITHFIELD LONGITUDE: -90.364598 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.480513 DATE COLLECTED: 7 / 20 / 1961

SURFACE ELEVATION (FT.): 579.9 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE XX411 WELL TYPE: Coal Test

COMMENT: MARIETTA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
579.9	PLEISTOCENE		CLAY	12.0	0.0	
567.9	PLEISTOCENE		CLAY	6.0	12.0	
561.9	PLEISTOCENE		CLAY	6.0	18.0	
555.9			SHALE	37.0	24.0	SOFT
518.9			COAL	1.2	61.0	GOOD
517.7			SHALE	18.0	62.2	SOFT
499.7			LIMESTONE	1.0	80.2	
498.7			COAL	0.8	81.2	GOOD
497.9			SHALE	8.0	82.0	SOFT
489.9			SHALE	7.0	90.0	HARD, WHITE

MAPID: 05701799000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 27 QUARTERS/FOOTAGES: 20' S line, 600' E line of NE

QUADRANGLE: SMITHFIELD LONGITUDE: -90.371601 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.473341 DATE COLLECTED: 1 / 8 / 1951

SURFACE ELEVATION (FT.): 616.3 LOGGED (FT.): 92.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
616.3			UNCONSOLIDATED	80.3	0.0	
536.0	SPOON		SHALE	6.0	80.3	
530.0	SPOON	ROCK ISLAND	COAL	5.0	86.3	
525.0	SPOON		UNDERCLAY	1.0	91.3	

MAPID: 05701801000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 27 QUARTERS/FOOTAGES: 850' N line, 325' E line

QUADRANGLE: SMITHFIELD LONGITUDE: -90.370586 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.478191 DATE COLLECTED: 1 / 11 / 1951

SURFACE ELEVATION (FT.): 592.2 LOGGED (FT.): 84.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
592.2			UNCONSOLIDATED	14.7	0.0	
577.5	CARBONDALE	COLCHESTER	COAL	1.2	14.7	BASE OF CARBONDALE
576.3	SPOON		UNDERCLAY	1.0	15.9	
575.3	SPOON		SHALE	46.3	16.9	
529.0	SPOON	ROCK ISLAND	COAL	1.3	63.2	BASE OF PENNSYLVANIAN
527.7	SPOON		LIMESTONE	19.8	64.5	MISSISSIPPIAN

MAPID: 05786684000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 27 QUARTERS/FOOTAGES: 660' S line, 0' E line of NW NW

QUADRANGLE: ADAIR LONGITUDE: -90.383585 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.478961 DATE COLLECTED: 7 / 24 / 1961

SURFACE ELEVATION (FT.): 594.3 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE XX379 WELL TYPE: Coal Test

COMMENT: MARIETTA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
594.3	PLEISTOCENE		CLAY	6.0	0.0	
588.3	PLEISTOCENE		CLAY	12.0	6.0	
576.3	PLEISTOCENE		CLAY	11.0	18.0	
565.3	CARBONDALE		DARK SHALE	14.0	29.0	SOFT
551.3	CARBONDALE		SHALE	5.0	43.0	HARD, WHITE
546.3	CARBONDALE		DARK SHALE	18.0	48.0	SOFT
528.3	CARBONDALE	COLCHESTER	COAL	0.5	66.0	SOFT
527.8	CARBONDALE	COLCHESTER	COAL	1.8	66.5	FAIR
526.0	CARBONDALE		DARK SHALE	1.7	68.3	

MAPID: 05701842000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 28 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: ADAIR LONGITUDE: -90.389819 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.467193 DATE COLLECTED: 6 / 22 / 1961

SURFACE ELEVATION (FT.): 572.8 LOGGED (FT.): 79.0 LOG TYPE: Survey Core Study

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
572.8			ROCK	20.0	0.0	INC UNC + SH
552.8	SPOON		SHALE	0.1	20.0	MD GY
552.7	SPOON		SANDSTONE	0.2	20.1	MD GY, MD-GRND, PYRC
552.5	SPOON		SHALE	16.5	20.3	MD LT TO MD DK GY, FRACD, CARB IN BTM 4 IN
536.0	SPOON	ROCK ISLAND	COAL	0.2	36.8	PYRC, CAL ON CLEATS
535.8	SPOON		SHALE	3.0	37.0	BS SPOON; MD DK TO LT OLV-GY; CY@TOP; CRB
532.8	ABBOTT	BERNADOTTE	SANDSTONE	8.8	40.0	LT YWSH GY, V FN-GRND, ARGIL, SIDC
524.0	ABBOTT	POPE CREEK	COAL WITH SHALE	1.0	48.8	.2 FT SS PTG, PYRC, INTRLAMD W/ SS @ TOP
522.9	ABBOTT		SHALE	2.7	49.9	OLV TO GNSH GY, CARB, STY AT BS
520.2	ABBOTT		SHALE	11.8	52.6	INTRLAMD W/ V FN SS, DK GY
508.4	ABBOTT		SHALE	1.6	64.4	MD GY, LWR 1/2 IN PYRC + CY
506.8	ABBOTT	TARTER	COAL	5.5	66.0	2.09-FT SH PTG, PYRC, CNLD TO NBB, BNY LWR
501.3	ABBOTT		BLACK SHALE	0.5	71.5	BK, BIT
500.8	ABBOTT		SHALE	4.0	72.0	MD TO OLV-GY, SLKNSDD, SIDC, STY, CARB
496.8	ABBOTT		SILTSTONE	0.3	76.0	LT OLV-GY
496.5	ABBOTT		BLACK SHALE	0.3	76.3	OLV GY, MTLDD BK, SLKNSDD
496.1	ABBOTT		ROCK	2.3	76.7	CORE LOSS

MAPID: 05786632000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 28 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SE

QUADRANGLE: ADAIR LONGITUDE: -90.393457 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.466325 DATE COLLECTED: 5 / 18 / 1961

SURFACE ELEVATION (FT.): 624.8 LOGGED (FT.): 91.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE YY223 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
624.8	PLEISTOCENE		UNCONSOLIDATED	25.0	0.0	
599.8	PLEISTOCENE		CLAY	17.0	25.0	
582.8	PLEISTOCENE		CLAY	30.5	42.0	
552.3	CARBONDALE	COLCHESTER	COAL	14.5	72.5	GOOD
537.8	CARBONDALE	COLCHESTER	COAL	2.3	87.0	GOOD
535.5	CARBONDALE		UNDERCLAY	1.8	89.3	

MAPID: 05786635000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 28 QUARTERS/FOOTAGES: 0' S line, 0' W line of NE NE
 QUADRANGLE: ADAIR LONGITUDE: -90.393234 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.477322 DATE COLLECTED: 12 / 6 / 1961
 SURFACE ELEVATION (FT.): 626.9 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE YY373 WELL TYPE: Coal Test
 COMMENT: VERMONT BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
626.9	PLEISTOCENE		CLAY	9.0	0.0	
617.9	PLEISTOCENE		CLAY	15.0	9.0	
602.9	PLEISTOCENE		CLAY	45.0	24.0	
557.9	CARBONDALE		ROCK	2.0	69.0	
555.9	CARBONDALE		MICACEOUS SHALE	2.0	71.0	SOFT
553.9	CARBONDALE		SANDSTONE	6.0	73.0	HARD
547.9	CARBONDALE		MICACEOUS SHALE	5.0	79.0	SOFT
542.9	CARBONDALE	COLCHESTER	COAL	1.3	84.0	GOOD
541.6	CARBONDALE		MICACEOUS SHALE	1.7	85.3	SOFT

MAPID: 05786631000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SE
 QUADRANGLE: ADAIR LONGITUDE: -90.412756 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.466553 DATE COLLECTED: 5 / 3 / 1962
 SURFACE ELEVATION (FT.): 633.0 LOGGED (FT.): 31.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE YY215 WELL TYPE: Coal Test
 COMMENT: MARIETTA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.0	PLEISTOCENE		CLAY	5.0	0.0	
628.0	PLEISTOCENE		CLAY	4.0	5.0	
624.0	PLEISTOCENE		CLAY	12.0	9.0	
612.0	CARBONDALE		SHALE	6.0	21.0	SOFT
606.0	CARBONDALE	COLCHESTER	COAL	2.3	27.0	GOOD
603.7	CARBONDALE		UNDERCLAY	1.8	29.3	

MAPID: 05786634000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW

QUADRANGLE: ADAIR LONGITUDE: -90.427028 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.477734 DATE COLLECTED: 5 / 4 / 1962

SURFACE ELEVATION (FT.): 660.4 LOGGED (FT.): 58.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE YY359 WELL TYPE: Coal Test

COMMENT: MARIETTA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.4	PLEISTOCENE		CLAY	6.0	0.0	
654.4	PLEISTOCENE		CLAY	15.0	6.0	
639.4	PLEISTOCENE		CLAY	11.0	21.0	
628.4	CARBONDALE		SHALE	22.0	32.0	SOFT
606.4	CARBONDALE	COLCHESTER	COAL	2.6	54.0	GOOD
603.8	CARBONDALE		UNDERCLAY	1.4	56.6	

MAPID: 05786628000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 30 QUARTERS/FOOTAGES: 1' S line, 0' W line of SW SW

QUADRANGLE: ADAIR LONGITUDE: -90.447567 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.466723 DATE COLLECTED: 5 / 1 / 1962

SURFACE ELEVATION (FT.): 671.0 LOGGED (FT.): 82.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE YY201 WELL TYPE: Coal Test

COMMENT: MARIETTA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.0	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
660.0	PLEISTOCENE		CLAY	17.0	11.0	
643.0	PLEISTOCENE		CLAY	41.0	28.0	
602.0	CARBONDALE		SHALE	11.0	69.0	SOFT
591.0	SPOON	ROCK ISLAND	COAL	0.9	80.0	GOOD
590.1	CARBONDALE		UNDERCLAY	1.1	80.9	

MAPID: 05786630000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 30 QUARTERS/FOOTAGES: 0' S line, 660' E line of SE SW
 QUADRANGLE: ADAIR LONGITUDE: -90.439792 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.46671 DATE COLLECTED: 9 / 29 / 1964
 SURFACE ELEVATION (FT.): 652.0 LOGGED (FT.): 42.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE YY204 WELL TYPE: Coal Test
 COMMENT: MARIETTA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
652.0	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
644.0	PLEISTOCENE		CLAY	9.0	8.0	
635.0	PLEISTOCENE		CLAY	13.0	17.0	
622.0	CARBONDALE		SANDY SHALE	8.0	30.0	SOFT
614.0	CARBONDALE	COLCHESTER	COAL	2.2	38.0	FAIR
611.8	CARBONDALE		UNDERCLAY	1.8	40.2	

MAPID: 05786633000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 30 QUARTERS/FOOTAGES: 0' S line, 330' W line of NE NW
 QUADRANGLE: ADAIR LONGITUDE: -90.441181 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.477703 DATE COLLECTED: 5 / 4 / 1962
 SURFACE ELEVATION (FT.): 669.0 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE YY353NP WELL TYPE: Coal Test
 COMMENT: MARIETTA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.0	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
660.0	PLEISTOCENE		CLAY	14.0	9.0	
646.0	PLEISTOCENE		CLAY	31.0	23.0	
615.0	CARBONDALE		SHALE	10.0	54.0	SOFT
605.0	CARBONDALE	COLCHESTER	COAL	2.3	64.0	GOOD
602.7	CARBONDALE		UNDERCLAY	1.8	66.3	

MAPID: 05786629000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 31 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW

QUADRANGLE: ADAIR LONGITUDE: -90.447596 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.463033 DATE COLLECTED: 5 / 1 / 1962

SURFACE ELEVATION (FT.): 671.0 LOGGED (FT.): 82.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE YY201 WELL TYPE: Coal Test

COMMENT: MARIETTA AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.0	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
660.0	PLEISTOCENE		CLAY	17.0	11.0	
643.0	PLEISTOCENE		CLAY	41.0	28.0	
602.0	CARBONDALE		SHALE	11.0	69.0	SOFT
591.0	TRADEWATER	ROCK ISLAND	COAL	0.9	80.0	GOOD
590.1	CARBONDALE		UNDERCLAY	1.1	80.9	

MAPID: 05786682000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 1E SECTION: 34 QUARTERS/FOOTAGES: 0' N line, 0' E line of SW SW

QUADRANGLE: ADAIR LONGITUDE: -90.383982 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.455331 DATE COLLECTED: 1 / 9 / 1961

SURFACE ELEVATION (FT.): 548.7 LOGGED (FT.): 52.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE XX53 WELL TYPE: Coal Test

COMMENT: VERMONT BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
548.7	PLEISTOCENE		UNCONSOLIDATED	22.0	0.0	
526.7	PLEISTOCENE		SAND	6.0	22.0	
520.7	CARBONDALE		SANDSTONE	4.0	28.0	SOFT
516.7	CARBONDALE		DARK SHALE	1.0	32.0	
515.7	CARBONDALE		LIMESTONE	1.6	33.0	
514.1	CARBONDALE		UNDERCLAY	3.4	34.6	
510.7	TRADEWATER		SHALE	2.6	38.0	
508.1	TRADEWATER		ROCK	0.8	40.6	
507.4	TRADEWATER		DARK SHALE	7.1	41.3	
500.3	TRADEWATER	ROCK ISLAND	COAL	2.8	48.4	GOOD
497.5	TRADEWATER		UNDERCLAY	0.8	51.2	

MAPID: 05786683000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: FULTON **TWP/RNG:** 6N 1E **SECTION:** 34 **QUARTERS/FOOTAGES:** 0' N line, 0' W line of NW NW
QUADRANGLE: ADAIR **LONGITUDE:** -90.388633 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.466264 **DATE COLLECTED:** 5 / 1 / 1961
SURFACE ELEVATION (FT.): 602.1 **LOGGED (FT.):** 67.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE XX201 **WELL TYPE:** Coal Test
COMMENT: VERMONT AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
602.1	PLEISTOCENE		UNCONSOLIDATED	26.0	0.0	
576.1	PLEISTOCENE		CLAY	29.0	26.0	
547.1	CARBONDALE		GRAY SHALE	7.8	55.0	
539.3	CARBONDALE	COLCHESTER	COAL	2.2	62.8	GOOD
537.1	CARBONDALE		UNDERCLAY	2.0	65.0	

MAPID: 05760087000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 2E **SECTION:** 12 **QUARTERS/FOOTAGES:** 1220' S line, 68' E line
QUADRANGLE: FIATT **LONGITUDE:** -90.215983 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.512924 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 610.0 **LOGGED (FT.):** 40.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
575.0	CARBONDALE	HOUCHIN CREEK	COAL	5.0	35.0	

MAPID: 05760088000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 2E **SECTION:** 13 **QUARTERS/FOOTAGES:** 64' S line, 660' E line of NE
QUADRANGLE: FIATT **LONGITUDE:** -90.21822 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.502426 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 665.0 **LOGGED (FT.):** 52.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
616.0	CARBONDALE	SPRINGFIELD	COAL	3.0	49.0	

MAPID: 05760089000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 2E **SECTION:** 24 **QUARTERS/FOOTAGES:** 0' N line, 0' E line of NW NE
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.220513 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.494943 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 669.0 **LOGGED (FT.):** 54.1 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.2	CARBONDALE	SPRINGFIELD	COAL	5.3	48.8	

MAPID: 05760090000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 2E **SECTION:** 24 **QUARTERS/FOOTAGES:** 0' N line, 0' W line of NW NE
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.225154 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.494959 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 667.0 **LOGGED (FT.):** 52.3 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0	CARBONDALE	SPRINGFIELD	COAL	5.3	47.0	

MAPID: 05760091000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 2E **SECTION:** 24 **QUARTERS/FOOTAGES:** 1620' N line, 1320' E line
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.220702 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.490475 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 661.0 **LOGGED (FT.):** 42.7 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.0	CARBONDALE	SPRINGFIELD	COAL	3.7	39.0	"SOFT"

MAPID: 05760092000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 2E **SECTION:** 24 **QUARTERS/FOOTAGES:** 1800' N line, 2580' E line
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.225258 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.489995 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 650.0 **LOGGED (FT.):** 37.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
616.0	CARBONDALE	SPRINGFIELD	COAL	3.0	34.0	

MAPID: 05760093000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 2E **SECTION:** 24 **QUARTERS/FOOTAGES:** 1640' N line, 0' E line
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.215931 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.490404 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 665.0 **LOGGED (FT.):** 58.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
612.0	CARBONDALE	SPRINGFIELD	COAL	5.0	53.0	

MAPID: 05760094000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 2E **SECTION:** 24 **QUARTERS/FOOTAGES:** 1880' S line, 2920' E line
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.226542 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.485591 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 671.0 **LOGGED (FT.):** 51.5 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
624.0	CARBONDALE	SPRINGFIELD	COAL	4.5	47.0	

MAPID: 05760095000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 2E **SECTION:** 24 **QUARTERS/FOOTAGES:** 1220' S line, 1400' E line
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.221073 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.483768 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 677.0 **LOGGED (FT.):** 47.7 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
634.0	CARBONDALE	SPRINGFIELD	COAL	4.7	43.0	

MAPID: 05760096000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 2E **SECTION:** 24 **QUARTERS/FOOTAGES:** 980' S line, 2720' E line
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.225851 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.483107 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 672.0 **LOGGED (FT.):** 58.5 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
618.0	CARBONDALE	SPRINGFIELD	COAL	4.5	54.0	

MAPID: 05760097000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 2E **SECTION:** 24 **QUARTERS/FOOTAGES:** 0' S line, 0' W line of SE SE
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.220749 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.480403 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 675.0 **LOGGED (FT.):** 45.8 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
634.0	CARBONDALE	SPRINGFIELD	COAL	4.8	41.0	

MAPID: 05760098000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 2E **SECTION:** 24 **QUARTERS/FOOTAGES:** 1380' S line, 1340' W line
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.229884 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.484213 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 670.4 **LOGGED (FT.):** 41.4 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.4	CARBONDALE	SPRINGFIELD	COAL	4.4	37.0	

MAPID: 05700061000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 1 **QUARTERS/FOOTAGES:** NW NW NW NE
QUADRANGLE: CANTON **LONGITUDE:** -90.113095 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.538184 **DATE COLLECTED:** 0 / 0 / 1935
SURFACE ELEVATION (FT.): 670.0 **LOGGED (FT.):** 64.9 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	19.0	0.0	
651.0	CARBONDALE	CANTON	SHALE	38.0	19.0	
613.0	CARBONDALE	ST. DAVID	LIMESTONE	0.7	57.0	
612.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	57.7	FISSILE
610.5	CARBONDALE	SPRINGFIELD	COAL	4.4	59.5	
606.1	CARBONDALE		UNDERCLAY	1.0	63.9	

MAPID: 05700062000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 1

QUARTERS/FOOTAGES: SW SW NW NE

QUADRANGLE: CANTON

LONGITUDE: -90.113143

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.535446

DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 675.0

LOGGED (FT.): 71.0

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.0			UNCONSOLIDATED	21.0	0.0	
654.0	CARBONDALE	CANTON	SHALE	41.0	21.0	SDY TOP 5 FT
613.0	CARBONDALE	ST. DAVID	LIMESTONE	0.8	62.0	
612.2	CARBONDALE	TURNER MINE	BLACK SHALE	3.2	62.8	FISSILE
609.0	CARBONDALE	SPRINGFIELD	COAL	4.0	66.0	
605.0	CARBONDALE		UNDERCLAY	1.0	70.0	

MAPID: 05700064000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 1

QUARTERS/FOOTAGES: 0' S line, 0' W line of NE NW

QUADRANGLE: CANTON

LONGITUDE: -90.118484

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.534986

DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 670.0

LOGGED (FT.): 64.5

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	20.0	0.0	
650.0	CARBONDALE	CANTON	SHALE	35.8	20.0	
614.2	CARBONDALE	ST. DAVID	LIMESTONE	0.5	55.8	
613.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.2	56.3	FISSILE
611.5	CARBONDALE	SPRINGFIELD	COAL	5.0	58.5	
606.5	CARBONDALE		UNDERCLAY	1.0	63.5	

MAPID: 05700066000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 2 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NE

QUADRANGLE: CANTON LONGITUDE: -90.123225 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.53498 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 45.7 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	21.0	0.0	
644.0	CARBONDALE	CANTON	SHALE	15.0	21.0	
629.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	36.0	
628.5	CARBONDALE	TURNER MINE	BLACK SHALE	3.2	36.5	FISSILE
625.3	CARBONDALE	SPRINGFIELD	COAL	5.0	39.7	
620.3	CARBONDALE		UNDERCLAY	1.0	44.7	

MAPID: 05700067000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 2 QUARTERS/FOOTAGES: NE SW NE SW

QUADRANGLE: FIATT LONGITUDE: -90.135638 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.528864 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 41.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	15.0	0.0	
645.0	CARBONDALE	CANTON	SHALE	17.0	15.0	
628.0	CARBONDALE	ST. DAVID	LIMESTONE	1.3	32.0	
626.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.6	33.3	FISSILE
624.2	CARBONDALE	SPRINGFIELD	COAL	4.9	35.8	
619.2			UNDERCLAY	1.0	40.8	

MAPID: 05700068000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 2 QUARTERS/FOOTAGES: NW NE

QUADRANGLE: FIATT LONGITUDE: -90.130166 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.53674 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 38.9 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	20.0	0.0	
640.0	CARBONDALE	CANTON	SHALE	8.5	20.0	
631.5	CARBONDALE	ST. DAVID	LIMESTONE	1.3	28.5	
630.2	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	29.8	FISSILE
627.2	CARBONDALE	SPRINGFIELD	COAL	5.1	32.8	
622.1	CARBONDALE		UNDERCLAY	1.0	37.9	

MAPID: 05700070000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 3

QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: FIATT

LONGITUDE: -90.159967

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.524797

DATE COLLECTED: 0 / 0 / 1902

SURFACE ELEVATION (FT.): 640.0

LOGGED (FT.): 382.0

LOG TYPE: Drillers Log

SOURCE: WHITEBREAST FUEL CO.

WELL TYPE: Coal Test

COMMENT: MISTAKE IN DEPTH OR UNIT MSG AT 141.0

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0			UNCONSOLIDATED	55.0	0.0	
585.0	CARBONDALE		SHALE	5.0	55.0	
580.0	CARBONDALE		SANDSTONE	20.0	60.0	SHY
560.0	CARBONDALE		SANDY SHALE	61.0	80.0	
499.0	CARBONDALE		ROCK	5.0	141.0	MSG FROM DESC
494.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	11.7	146.0	BL TO BK,FIS
482.3	CARBONDALE	COLCHESTER	COAL	2.3	157.7	BASE OF CARBONDALE
480.0	SPOON		SHALE	18.0	160.0	SDY IN LWR 1/2
462.0	SPOON	WILEY	COAL	1.0	178.0	
461.0	SPOON		SHALE	21.0	179.0	
440.0	SPOON		SANDSTONE	2.0	200.0	
438.0	SPOON		SHALE	12.0	202.0	INTRLAMD W/ SS IN LWR 1/3
426.0	SPOON		BLACK SHALE	4.0	214.0	FISSILE
422.0	SPOON	HERMON	COAL	1.8	218.0	
420.2	SPOON		SANDY SHALE	19.3	219.8	
401.0	SPOON		SANDSTONE	5.0	239.0	
396.0	SPOON	ROCK ISLAND	COAL	2.0	244.0	
394.0	SPOON		SHALE	42.0	246.0	BASE OF SPOON
352.0	ABBOTT	BERNADOTTE	SANDSTONE	24.0	288.0	
328.0	ABBOTT		SANDY SHALE	24.0	312.0	
304.0	ABBOTT		SHALE	20.0	336.0	BS PENNSYLVANIAN;BL
284.0			LIMESTONE	26.0	356.0	SHY.MISSISSIPPIAN

MAPID: 05700071000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 4 QUARTERS/FOOTAGES: SW

QUADRANGLE: FIATT LONGITUDE: -90.175429 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.527528 DATE COLLECTED:

SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 261.8 LOG TYPE: Drillers Log

SOURCE: WHITEBREAST FUEL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			ROCK	96.0	0.0	UNDIFF, INCL UNC
524.0	CARBONDALE		SANDSTONE	21.0	96.0	
503.0	CARBONDALE		SHALE	5.0	117.0	DARK
498.0	CARBONDALE		BLACK SHALE	0.5	122.0	
497.5	CARBONDALE	LOWELL	COAL	1.3	122.5	
496.2	CARBONDALE		SHALE	6.0	123.8	DARK
490.2	CARBONDALE		SHALE	8.0	129.8	
482.2	CARBONDALE	COLCHESTER	COAL	1.9	137.8	BASE OF CARBONDALE
480.3	SPOON		SHALE	18.0	139.7	SDY TOP 12 FT
462.3	SPOON	WILEY	COAL	0.8	157.7	
461.5	SPOON		SHALE	21.0	158.5	
440.5	SPOON		LIMESTONE	1.5	179.5	
439.0	SPOON		SANDSTONE	4.5	181.0	
434.5	SPOON		SHALE	4.0	185.5	
430.5	SPOON		BLACK SHALE	8.0	189.5	
422.5	SPOON	HERMON	COAL	2.3	197.5	
420.2	SPOON		SHALE	11.0	199.8	BASE OF SPOON
409.2	ABBOTT	BERNADOTTE	SANDSTONE	4.0	210.8	
405.2	ABBOTT		BLACK SHALE	3.0	214.8	
402.2	ABBOTT		SHALE	13.0	217.8	
389.2	ABBOTT		SANDSTONE	2.0	230.8	
387.2	ABBOTT		SHALE	13.0	232.8	
374.2	ABBOTT		SANDSTONE	16.0	245.8	

MAPID: 05700072000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 5 QUARTERS/FOOTAGES: 1100' S line, 700' W line

QUADRANGLE: FIATT LONGITUDE: -90.196786 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.526955 DATE COLLECTED: 7 / 26 / 1918

SURFACE ELEVATION (FT.): 548.0 LOGGED (FT.): 114.5 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
548.0			UNCONSOLIDATED	18.0	0.0	
530.0	CARBONDALE		SANDY SHALE	4.0	18.0	
526.0	CARBONDALE		SANDSTONE	9.0	22.0	
517.0	CARBONDALE		SHALE	23.5	31.0	
493.5	CARBONDALE	LOWELL	COAL	0.5	54.5	
493.0	CARBONDALE		SANDY SHALE	5.7	55.0	
487.3	CARBONDALE	COLCHESTER	COAL WITH SHALE	7.8	60.7	BS CARBONDALE;6-FT SS/SH PTG
479.5	SPOON		SANDY SHALE	1.5	68.5	
478.0	SPOON		SANDSTONE	5.0	70.0	
473.0	SPOON		COAL	0.7	75.0	
472.3	SPOON		SHALE	6.3	75.7	SDY TOP 4.33 FT
466.0	SPOON		COAL	0.3	82.0	
465.7	SPOON		SHALE	1.2	82.3	
464.5	SPOON		COAL	0.5	83.5	
464.0	SPOON		SANDY SHALE	2.7	84.0	
461.3	SPOON		COAL	1.7	86.7	
459.7	SPOON		SHALE	24.7	88.3	SDY LWR PART
435.0	SPOON		SANDSTONE	1.5	113.0	

MAPID: 05700073000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 5 QUARTERS/FOOTAGES: 650' N line, 750' E line of SW

QUADRANGLE: FIATT LONGITUDE: -90.1924 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.529459 DATE COLLECTED: 9 / 25 / 1917

SURFACE ELEVATION (FT.): 551.0 LOGGED (FT.): 180.0 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
551.0			UNCONSOLIDATED	29.0	0.0	
522.0	CARBONDALE		SHALE	27.0	29.0	DK MDL 2 FT
495.0	CARBONDALE	LOWELL	COAL	3.0	56.0	
492.0	CARBONDALE		SANDY SHALE	11.0	59.0	
481.0	CARBONDALE	COLCHESTER	COAL	2.3	70.0	BASE OF CARBONDALE
478.7	SPOON		UNDERCLAY	3.7	72.3	
475.0	SPOON		SHALE	35.3	76.0	SDY TOP 19 FT
439.7	SPOON	DELONG	COAL	0.3	111.3	
439.3	SPOON		SANDSTONE	0.5	111.7	
438.8	SPOON		COAL	1.2	112.2	
437.7	SPOON		SHALE	0.7	113.3	
437.0	SPOON	SEVILLE	LIMESTONE	5.0	114.0	
432.0	SPOON	ROCK ISLAND	COAL	2.1	119.0	
429.9	SPOON		ROCK	0.5	121.1	"FALSE BOTTOM"
429.4	SPOON		SANDY SHALE	4.9	121.6	
424.5	SPOON		SANDSTONE	0.5	126.5	
424.0	SPOON		SHALE	53.0	127.0	

MAPID: 05700076000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 6

QUARTERS/FOOTAGES: NE SE SE

QUADRANGLE: FIATT

LONGITUDE: -90.200522

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.526691

DATE COLLECTED: 7 / 19 / 1917

SURFACE ELEVATION (FT.): 552.0

LOGGED (FT.): 97.0

LOG TYPE: Drillers Log

SOURCE: STAR COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
552.0			UNCONSOLIDATED	38.0	0.0	
514.0	SPOON		SHALE	16.7	38.0	
497.3	SPOON	HERMON	COAL	1.0	54.7	
496.3	SPOON		SHALE	1.3	55.7	
495.0	SPOON	SEVILLE	LIMESTONE	2.0	57.0	"ROCK, BLDR"
493.0	SPOON		SANDY SHALE	31.0	59.0	
462.0	SPOON		SHALE	3.1	90.0	DARK
458.9	SPOON	ROCK ISLAND	COAL WITH SHALE	2.6	93.1	6-IN SLFR BND
456.3	SPOON		ROCK	0.3	95.7	BS SPOON;"FALSE BOTTOM"
456.0	ABBOTT	BERNADOTTE	SANDSTONE	1.0	96.0	

MAPID: 05700077000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 6

QUARTERS/FOOTAGES: 75' S line, 50' W line of SE

QUADRANGLE: FIATT

LONGITUDE: -90.208795

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.524211

DATE COLLECTED: 9 / 25 / 1917

SURFACE ELEVATION (FT.): 581.0

LOGGED (FT.): 153.5

LOG TYPE: Drillers Log

SOURCE: STAR COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
581.0			UNCONSOLIDATED	82.8	0.0	
498.2	SPOON		SHALE	25.7	82.8	
472.6	SPOON		SANDSTONE	0.8	108.4	
471.7	SPOON		SHALE	10.3	109.3	
461.5	SPOON	HERMON	COAL	0.8	119.5	
460.7	SPOON		SHALE	10.4	120.3	
450.2	SPOON	SEVILLE	LIMESTONE	8.8	130.8	
441.4	SPOON		SHALE	7.6	139.6	DARK
433.8	SPOON	ROCK ISLAND	COAL	3.9	147.2	
429.9	SPOON		SHALE	1.0	151.1	DARK
428.9	SPOON		SANDY SHALE	1.4	152.1	

MAPID: 05700078000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 6 QUARTERS/FOOTAGES: 200' S line, 1000' W line of SE

QUADRANGLE: FIATT LONGITUDE: -90.205349 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.524529 DATE COLLECTED: 10 / 2 / 1917

SURFACE ELEVATION (FT.): 569.0 LOGGED (FT.): 140.3 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
569.0			UNCONSOLIDATED	58.0	0.0
511.0	SPOON		SHALE	5.8	58.0
505.2	SPOON	WILEY	COAL	0.7	63.8
504.5	SPOON		SHALE	26.0	64.5
478.5	SPOON		ROCK	0.7	90.5
477.8	SPOON		SHALE	0.8	91.2
477.0	SPOON		SANDSTONE	0.5	92.0
476.5	SPOON		SHALE	8.7	92.5
467.8	SPOON		SHALE	0.5	101.2 DARK
467.3	SPOON	HERMON	COAL	1.4	101.7
465.9	SPOON		SHALE	1.5	103.1 DARK
464.4	SPOON		SHALE	5.4	104.6
459.0	SPOON	SEVILLE	LIMESTONE	18.1	110.0
440.9	SPOON		SHALE	3.5	128.1 DARK
437.4	SPOON	ROCK ISLAND	COAL	4.5	131.6
432.9	SPOON		SHALE	4.2	136.1

MAPID: 05700079000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 6 QUARTERS/FOOTAGES: 850' S line, 1250' W line of SE

QUADRANGLE: FIATT LONGITUDE: -90.204373 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.526317 DATE COLLECTED: 10 / 3 / 1917

SURFACE ELEVATION (FT.): 565.0 LOGGED (FT.): 136.2 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
565.0			UNCONSOLIDATED	45.0	0.0
520.0	SPOON		SHALE	16.5	45.0
503.5	SPOON		SANDSTONE	1.3	61.5
502.2	SPOON		SHALE	1.2	62.8
501.0	SPOON	WILEY	COAL	0.7	64.0
500.3	SPOON		SHALE	30.7	64.7
469.7	SPOON		SHALE	1.8	95.3 DARK
467.9	SPOON	HERMON	COAL	2.4	97.1
465.5	SPOON		SHALE	1.2	99.5
464.3	SPOON	SEVILLE	LIMESTONE	14.2	100.7
450.2	SPOON		SHALE	0.3	114.8 DARK
449.9	SPOON	ROCK ISLAND	COAL	2.3	115.1
447.6	SPOON		UNDERCLAY	3.5	117.4 BASE OF SPOON
444.1	ABBOTT		SHALE	12.0	120.9
432.1	ABBOTT	POPE CREEK	COAL	0.4	132.9
431.7	ABBOTT		SHALE	2.8	133.3

MAPID: 05700081000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 6 QUARTERS/FOOTAGES: 0' N line, 0' W line of SE

QUADRANGLE: FIATT LONGITUDE: -90.208687 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.531305 DATE COLLECTED: 11 / 9 / 1917

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 185.0 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0			UNCONSOLIDATED	51.5	0.0	
588.5	CARBONDALE		SHALE	52.2	51.5	SDY LWR 14.67 FT
536.3	CARBONDALE	COLCHESTER	COAL	1.3	103.7	BASE OF CARBONDALE
535.0	SPOON		SANDY SHALE	24.5	105.0	
510.5	SPOON		SANDSTONE	3.0	129.5	
507.5	SPOON		SANDY SHALE	15.7	132.5	
491.8	SPOON		SANDSTONE	0.7	148.2	
491.2	SPOON		SANDY SHALE	9.3	148.8	
481.9	SPOON		SHALE	3.1	158.1	DARK
478.8	SPOON	HERMON	COAL	1.6	161.2	
477.2	SPOON		SANDY SHALE	4.6	162.8	
472.7	SPOON		SANDSTONE	0.8	167.3	
471.8	SPOON	SEVILLE	LIMESTONE	11.5	168.2	
460.3	SPOON		SHALE	0.3	179.7	"CLOD",CALC SH
460.0	SPOON	ROCK ISLAND	COAL	3.7	180.0	BASE OF SPOON
456.3	ABBOTT	BERNADOTTE	SANDSTONE	1.3	183.7	

MAPID: 05700084000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 7 QUARTERS/FOOTAGES: 1080' N line, 1000' E line

QUADRANGLE: FIATT LONGITUDE: -90.203061 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.520981 DATE COLLECTED: 10 / 0 / 1941

SURFACE ELEVATION (FT.): 530.0 LOGGED (FT.): 121.4 LOG TYPE: Drillers Log

SOURCE: PEEK, VERNON WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
530.0			UNCONSOLIDATED	25.0	0.0	
505.0	SPOON		SHALE	17.5	25.0	
487.5	SPOON		LIMESTONE	1.0	42.5	
486.5	SPOON		SHALE	3.0	43.5	
483.5	SPOON	WILEY	COAL	0.5	46.5	
483.0	SPOON		SHALE	11.1	47.0	
471.9	SPOON	SEAHORNE LS	LIMESTONE	1.0	58.1	
470.9	SPOON		SHALE	30.9	59.1	SDY LWR 12.42 FT
440.0	SPOON		LIMESTONE	10.0	90.0	
430.0	SPOON	HERMON	COAL	1.0	100.0	
429.0	SPOON		UNDERCLAY	0.7	101.0	
428.3	SPOON	SEVILLE	LIMESTONE	13.4	101.7	
414.9	SPOON		SHALE	0.1	115.1	"CLOD",CALC SH
414.8	SPOON	ROCK ISLAND	COAL	5.0	115.2	
409.8	SPOON		UNDERCLAY	1.3	120.2	

MAPID: 05700090000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 7 QUARTERS/FOOTAGES: 650' N line, 35' E line of SE

QUADRANGLE: FIATT LONGITUDE: -90.199586 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.514884 DATE COLLECTED: 8 / 15 / 1917

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 236.0 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0			UNCONSOLIDATED	18.0	0.0	
644.0	CARBONDALE		SANDSTONE	10.3	18.0	YW
633.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	28.3	FISSILE
631.8	CARBONDALE	SPRINGFIELD	COAL	4.5	30.2	
627.3	CARBONDALE		SHALE	2.3	34.7	
625.0	CARBONDALE		SANDSTONE	2.0	37.0	
623.0	CARBONDALE		SHALE	19.0	39.0	
604.0	CARBONDALE		SANDSTONE	12.0	58.0	
592.0	CARBONDALE		SHALE	57.0	70.0	SDY UPR 1/2
535.0	CARBONDALE		BLACK SHALE	1.0	127.0	FISSILE
534.0	CARBONDALE	OAK GROVE	LIMESTONE	1.0	128.0	DK RK,PROB LS
533.0	CARBONDALE		SHALE	14.0	129.0	
519.0	CARBONDALE	COLCHESTER	COAL	2.3	143.0	BASE OF CARBONDALE
516.7	SPOON		SANDY SHALE	18.7	145.3	
498.0	SPOON	WILEY	COAL	1.0	164.0	
497.0	SPOON		SANDY SHALE	13.0	165.0	
484.0	SPOON	DELONG	COAL	0.3	178.0	
483.7	SPOON		SANDY SHALE	18.0	178.3	
465.7	SPOON		SHALE	7.0	196.3	DARK
458.7	SPOON	HERMON	COAL	3.7	203.3	2 IN SLFR BND
455.0	SPOON		SANDSTONE	0.3	207.0	
454.7	SPOON	SEVILLE	LIMESTONE	11.7	207.3	
443.0	SPOON		SHALE	6.6	219.0	DK,HRD
436.4	SPOON	ROCK ISLAND	COAL	4.3	225.6	BASE OF SPOON
432.1	ABBOTT		SANDY SHALE	6.1	229.9	

MAPID: 05700090000C VERSION: 2

PROJECT: NCRDS87

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 7 QUARTERS/FOOTAGES: 650' N line, 35' E line of SE

QUADRANGLE: FIATT LONGITUDE: -90.199586 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 40.514884 DATE COLLECTED: 8 / 15 / 1917

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 236.0 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT: ELEVATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	18.0	0.0	
647.0	CARBONDALE		SANDSTONE	10.3	18.0	
636.7	CARBONDALE	TURNER MINE	DARK SHALE	1.8	28.3	UNCERTAIN CORRELATION
634.8	CARBONDALE	SPRINGFIELD	COAL	4.5	30.2	
630.3	CARBONDALE		UNCLASSIFIED	94.3	34.7	
536.0	CARBONDALE		SHALE	14.0	129.0	
522.0	CARBONDALE	COLCHESTER	COAL	2.3	143.0	UNCERTAIN CORRELATION
519.7	SPOON		UNCLASSIFIED	18.7	145.3	
501.0	SPOON	ABINGDON	COAL	1.0	164.0	UNCERTAIN CORRELATION
500.0	SPOON		UNCLASSIFIED	12.0	165.0	
488.0	SPOON		DARK SHALE	1.0	177.0	
487.0	SPOON	WILEY	COAL	0.3	178.0	UNCERTAIN CORRELATION
486.7	SPOON		UNCLASSIFIED	18.0	178.3	
468.7	SPOON		DARK SHALE	7.0	196.3	
461.7	SPOON		COAL	3.7	203.3	
458.0	SPOON		SANDSTONE	0.3	207.0	
457.7	SPOON		UNCLASSIFIED	0.7	207.3	
457.0	SPOON	SEVILLE	LIMESTONE	11.0	208.0	UNCERTAIN CORRELATION
446.0	SPOON		DARK SHALE	6.6	219.0	
439.4	SPOON	ROCK ISLAND	COAL	4.3	225.6	UNCERTAIN CORRELATION
435.1			UNCLASSIFIED	6.1	229.9	

MAPID: 05700091000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 7 QUARTERS/FOOTAGES: 600' N line, 1500' W line of SE

QUADRANGLE: FIATT LONGITUDE: -90.203583 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.515054 DATE COLLECTED: 8 / 24 / 1917

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 250.0 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	19.0	0.0	
651.0	CARBONDALE	SPRINGFIELD	COAL	4.0	19.0	
647.0	CARBONDALE		SHALE	2.5	23.0	
644.5	CARBONDALE		SANDSTONE	1.5	25.5	
643.0	CARBONDALE		SHALE	22.0	27.0	
621.0	CARBONDALE		SANDSTONE	6.0	49.0	
615.0	CARBONDALE		SHALE	73.3	55.0	SDY IN UPR 1/2
541.7	CARBONDALE	COLCHESTER	COAL	2.2	128.3	BASE OF CARBONDALE
539.5	SPOON		SHALE	1.5	130.5	
538.0	SPOON		SANDSTONE	2.0	132.0	
536.0	SPOON		SANDY SHALE	10.0	134.0	
526.0	SPOON		LIMESTONE	1.5	144.0	BLDR RK,PROB LS
524.5	SPOON		GRAY SHALE	3.5	145.5	
521.0	SPOON	WILEY	COAL	0.7	149.0	
520.3	SPOON		SHALE	28.3	149.7	
492.0	SPOON	DELONG	COAL	0.3	178.0	
491.7	SPOON		SANDY SHALE	14.7	178.3	
477.0	SPOON	HERMON	COAL	0.3	193.0	
476.7	SPOON		SANDY SHALE	2.7	193.3	
474.0	SPOON		SANDSTONE	8.0	196.0	
466.0	SPOON		SANDY SHALE	6.0	204.0	
460.0	SPOON	ROCK ISLAND	COAL	3.1	210.0	BASE OF SPOON
456.9	ABBOTT		SHALE	35.9	213.1	SDY TP AND BTM
421.0	ABBOTT		LIMESTONE	1.0	249.0	SHY

MAPID: 05700091000C VERSION: 2

PROJECT: NCRDS87

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 7 QUARTERS/FOOTAGES: 600' N line, 1500' W line of SE

QUADRANGLE: FIATT LONGITUDE: -90.203583 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 40.515054 DATE COLLECTED: 8 / 24 / 1917

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 250.0 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT: ELEVATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	19.0	0.0	
651.0	CARBONDALE		UNCLASSIFIED	6.5	19.0	
644.5	CARBONDALE		SANDSTONE	1.5	25.5	
643.0	CARBONDALE		SHALE	22.0	27.0	
621.0	CARBONDALE		UNCLASSIFIED	36.0	49.0	
585.0	CARBONDALE		SHALE	43.3	85.0	
541.7	CARBONDALE	COLCHESTER	COAL	2.2	128.3	
539.5	SPOON		SHALE	1.5	130.5	
538.0	SPOON		SANDSTONE	2.0	132.0	
536.0	SPOON		UNCLASSIFIED	11.5	134.0	
524.5	SPOON		SHALE	3.5	145.5	
521.0	SPOON		COAL	0.7	149.0	
520.3	SPOON		SHALE	28.3	149.7	
492.0	SPOON		COAL	0.3	178.0	
491.7	SPOON		SANDSTONE	13.7	178.3	
478.0	SPOON		SHALE	1.0	192.0	
477.0	SPOON		COAL	0.3	193.0	
476.7	SPOON		UNCLASSIFIED	16.7	193.3	
460.0	SPOON	ROCK ISLAND	COAL	3.1	210.0	UNCERTAIN CORRELATION
456.9			UNCLASSIFIED	8.4	213.1	
448.5			SHALE	21.5	221.5	SANDY
427.0			GRAY SHALE	6.0	243.0	
421.0			SHALE	1.0	249.0	

MAPID: 05700092000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 7

QUARTERS/FOOTAGES: NE NE NW SE

QUADRANGLE: FIATT

LONGITUDE: -90.204828

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.516266

DATE COLLECTED: 8 / 30 / 1917

SURFACE ELEVATION (FT.): 638.0

LOGGED (FT.): 221.0

LOG TYPE: Drillers Log

SOURCE: STAR COAL CO.

WELL TYPE: Coal Test

COMMENT: MISTAKE IN DEPTH OR UNIT MSG AT 174.75

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
638.0			UNCONSOLIDATED	19.0	0.0	
619.0	CARBONDALE		SHALE	17.0	19.0	
602.0	CARBONDALE		SANDSTONE	6.0	36.0	
596.0	CARBONDALE		SHALE	56.0	42.0	SDY IN UPR 1/2
540.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	9.0	98.0	FISSILE
531.0	CARBONDALE		SHALE	12.0	107.0	
519.0	CARBONDALE	COLCHESTER	COAL	2.3	119.0	BASE OF CARBONDALE
516.7	SPOON		SANDY SHALE	6.7	121.3	
510.0	SPOON		SANDSTONE	3.0	128.0	
507.0	SPOON		SANDY SHALE	9.0	131.0	
498.0	SPOON	WILEY	COAL	0.8	140.0	
497.2	SPOON		SANDSTONE	28.2	140.8	
469.0	SPOON	HERMON	COAL	0.3	169.0	
468.7	SPOON		SANDSTONE	5.4	169.3	
463.2	SPOON		ROCK	7.0	174.8	MSG FROM DESC
456.2	SPOON	SEVILLE	LIMESTONE	4.8	181.8	
451.4	SPOON	ROCK ISLAND	COAL	2.4	186.6	BASE OF SPOON
449.0	ABBOTT		SANDY SHALE	11.6	189.0	
437.4	ABBOTT	POPE CREEK	COAL	0.3	200.6	
437.1	ABBOTT		UNDERCLAY	2.0	200.9	
435.1	ABBOTT		SHALE	18.1	202.9	SDY IN LWR 1/2

MAPID: 05700093000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 7 QUARTERS/FOOTAGES: 1600' S line, 625' E line of NW

QUADRANGLE: FIATT LONGITUDE: -90.211248 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.521186 DATE COLLECTED: 9 / 1 / 1917

SURFACE ELEVATION (FT.): 542.0 LOGGED (FT.): 115.4 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
542.0			UNCONSOLIDATED	24.0	0.0	
518.0	SPOON		SHALE	8.5	24.0	
509.5	SPOON	ISABEL	SANDSTONE	1.5	32.5	
508.0	SPOON		SHALE	16.7	34.0	
491.3	SPOON	GREENBUSH	COAL	0.8	50.7	
490.5	SPOON		SHALE	0.4	51.5	DARK
490.1	SPOON	WILEY	COAL WITH SHALE	4.8	51.9	1.58-FT SH PTG
485.3	SPOON		SHALE	6.8	56.7	
478.5	SPOON		SHALE	1.5	63.5	DARK
477.0	SPOON	DELONG	COAL	1.0	65.0	
476.0	SPOON		SHALE	2.5	66.0	DARK
473.5	SPOON		SANDY SHALE	10.7	68.5	
462.8	SPOON		SANDSTONE	9.9	79.2	
452.9	SPOON		SANDY SHALE	3.3	89.1	
449.6	SPOON		SHALE	3.8	92.4	DARK
445.7	SPOON	SEVILLE	LIMESTONE	0.3	96.3	"DK RK"
445.4	SPOON		SHALE	6.8	96.6	DARK
438.7	SPOON	ROCK ISLAND	COAL	0.3	103.3	
438.3	SPOON		UNDERCLAY	1.5	103.7	BASE OF SPOON
436.8	ABBOTT	BERNADOTTE	SANDSTONE	6.3	105.2	
430.5	ABBOTT		SHALE	2.5	111.5	BS PENNSYLVANIAN; SDY
428.0			LIMESTONE	1.4	114.0	MISSISSIPPIAN

MAPID: 05700097000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 7 QUARTERS/FOOTAGES: 30' N line, 1040' E line
 QUADRANGLE: FIATT LONGITUDE: -90.203198 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.52388 DATE COLLECTED: 7 / 14 / 1917
 SURFACE ELEVATION (FT.): 560.0 LOGGED (FT.): 95.8 LOG TYPE: Drillers Log
 SOURCE: STAR COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.0			UNCONSOLIDATED	29.0	0.0	
531.0	SPOON		SHALE	3.5	29.0	
527.5	SPOON	DELONG	COAL	0.7	32.5	
526.8	SPOON		SHALE	36.8	33.2	
490.0	SPOON	SEVILLE	LIMESTONE	20.8	70.0	
469.2	SPOON		CLAYSTONE	0.1	90.8	
469.2	SPOON	ROCK ISLAND	COAL	3.9	90.8	BASE OF SPOON
465.2	ABBOTT	BERNADOTTE	SANDSTONE	1.0	94.8	

MAPID: 05700100000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 7 QUARTERS/FOOTAGES: 1600' S line, 200' W line of NE
 QUADRANGLE: FIATT LONGITUDE: -90.208265 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.521162 DATE COLLECTED: 9 / 10 / 1917
 SURFACE ELEVATION (FT.): 541.0 LOGGED (FT.): 108.6 LOG TYPE: Drillers Log
 SOURCE: STAR COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
541.0			UNCONSOLIDATED	19.0	0.0	
522.0	SPOON		SHALE	19.2	19.0	
502.8	SPOON	GREENBUSH	COAL	1.5	38.2	
501.3	SPOON		SHALE	7.3	39.7	
494.0	SPOON		SANDSTONE	1.2	47.0	
492.8	SPOON		SHALE	17.2	48.2	
475.7	SPOON	SEAHORNE LS	LIMESTONE	0.7	65.3	"BK RK"
475.0	SPOON		SHALE	2.5	66.0	DARK
472.5	SPOON		SHALE	8.5	68.5	
464.0	SPOON	HERMON	COAL	1.1	77.0	
462.9	SPOON		SHALE	0.7	78.1	DARK
462.2	SPOON		SANDSTONE	4.0	78.8	
458.2	SPOON	SEVILLE	LIMESTONE	13.2	82.8	
445.1	SPOON		SHALE	7.5	95.9	DARK
437.6	SPOON	ROCK ISLAND	COAL	4.2	103.4	
433.4	SPOON		SHALE	1.0	107.6	

MAPID: 05700102000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 7 QUARTERS/FOOTAGES: 1100' N line, 925' W line

QUADRANGLE: FIATT LONGITUDE: -90.212251 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.520998 DATE COLLECTED: 10 / 24 / 1917

SURFACE ELEVATION (FT.): 544.0 LOGGED (FT.): 111.7 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
544.0			UNCONSOLIDATED	9.0	0.0	
535.0	CARBONDALE		SHALE	19.2	9.0	
515.8	CARBONDALE	COLCHESTER	COAL	2.5	28.2	BASE OF CARBONDALE
513.3	SPOON		SHALE	12.7	30.7	
500.7	SPOON		SHALE	2.0	43.3	DARK
498.7	SPOON		LIMESTONE	0.5	45.3	"BRN BLDR"
498.2	SPOON		SHALE	3.7	45.8	
494.5	SPOON	WILEY	COAL	1.2	49.5	
493.3	SPOON		SHALE	1.2	50.7	
492.2	SPOON	SEAHORNE LS	LIMESTONE	1.2	51.8	"BLDR RK"
491.0	SPOON		SHALE	18.0	53.0	
473.0	SPOON		SANDSTONE	4.0	71.0	
469.0	SPOON		SHALE	9.0	75.0	
460.0	SPOON		BLACK SHALE	6.5	84.0	FISSILE
453.5	SPOON	HERMON	COAL	3.9	90.5	
449.6	SPOON		SANDSTONE	0.3	94.4	
449.2	SPOON	SEVILLE	LIMESTONE	6.8	94.8	
442.5	SPOON	ROCK ISLAND	COAL	2.9	101.5	
439.6	SPOON		SHALE	0.1	104.4	BIT
439.5	SPOON		SHALE	7.2	104.5	SDY TOP 4.17 FT

MAPID: 05700104000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 8

QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NW SW

QUADRANGLE: FIATT

LONGITUDE: -90.197066

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.516673

DATE COLLECTED: 10 / 12 / 1917

SURFACE ELEVATION (FT.): 610.0

LOGGED (FT.): 150.0

LOG TYPE: Drillers Log

SOURCE: STAR COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.0			UNCONSOLIDATED	9.0	0.0	
601.0	CARBONDALE		SHALE	22.0	9.0	
579.0	CARBONDALE	HANOVER	LIMESTONE	2.2	31.0	"ROCK"
576.8	CARBONDALE		SHALE	13.6	33.2	
563.2	CARBONDALE	HOUCHIN CREEK	COAL	2.5	46.8	
560.7	CARBONDALE	PURINGTON	SHALE	18.3	49.3	11-IN LS NEAR TOP
542.4	CARBONDALE	LOWELL	COAL	1.3	67.6	
541.1	CARBONDALE		SHALE	26.1	68.9	
515.0	CARBONDALE		SANDSTONE	2.0	95.0	
513.0	CARBONDALE		SHALE	6.0	97.0	
507.0	CARBONDALE	MECCA QUARRY	SHALE	2.5	103.0	DARK
504.5	CARBONDALE	COLCHESTER	COAL	4.3	105.5	BASE OF CARBONDALE
500.2	SPOON		SANDY SHALE	5.2	109.8	
495.0	SPOON	ISABEL	SANDSTONE	8.0	115.0	
487.0	SPOON		SANDY SHALE	3.0	123.0	
484.0	SPOON	WILEY	COAL	0.3	126.0	
483.7	SPOON		SANDY SHALE	0.8	126.3	
483.0	SPOON	SEAHORNE LS	LIMESTONE	0.5	127.0	"BLDR RK"
482.5	SPOON		SHALE	8.5	127.5	
474.0	SPOON	DELONG	COAL	3.8	136.0	
470.2	SPOON		SHALE	9.2	139.8	SDY TOP 6.17 FT
461.0	SPOON		SANDSTONE	1.0	149.0	

MAPID: 05700105000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 8 QUARTERS/FOOTAGES: 100' N line, 1200' W line

QUADRANGLE: FIATT LONGITUDE: -90.1951 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.523638 DATE COLLECTED: 9 / 19 / 1917

SURFACE ELEVATION (FT.): 565.0 LOGGED (FT.): 151.0 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
565.0			UNCONSOLIDATED	32.0	0.0	
533.0	CARBONDALE		SHALE	11.5	32.0	
521.5	CARBONDALE	LOWELL	COAL	0.5	43.5	
521.0	CARBONDALE		SHALE	20.0	44.0	SDY LWR 1/2
501.0	CARBONDALE		SANDSTONE	1.5	64.0	
499.5	CARBONDALE		SANDY SHALE	3.5	65.5	
496.0	CARBONDALE		SANDSTONE	3.0	69.0	
493.0	CARBONDALE	FRANCIS CREEK	SHALE	2.0	72.0	
491.0	CARBONDALE	COLCHESTER	COAL WITH SHALE PARTINGS	9.0	74.0	BS CARBONDALE;4.08+1.-FT SH PTGS
482.0	SPOON		SANDY SHALE	8.5	83.0	
473.5	SPOON	WILEY	COAL	0.5	91.5	
473.0	SPOON		SHALE	49.0	92.0	
424.0	SPOON		SANDSTONE	6.0	141.0	
418.0	SPOON		SHALE	4.0	147.0	CALC

MAPID: 05700108000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 8 QUARTERS/FOOTAGES: 50' N line, 200' W line

QUADRANGLE: FIATT LONGITUDE: -90.198718 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.523793 DATE COLLECTED: 7 / 28 / 1917

SURFACE ELEVATION (FT.): 548.0 LOGGED (FT.): 123.0 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
548.0			UNCONSOLIDATED	18.0	0.0	
530.0			SHALE	8.0	18.0	
522.0			COAL	0.8	26.0	
521.2			SHALE	30.2	26.8	
491.0	CARBONDALE	COLCHESTER	COAL	1.7	57.0	BASE OF CARBONDALE
489.3			SHALE	1.3	58.7	
488.0			LIMESTONE	4.2	60.0	
483.8			SHALE	0.3	64.2	"CLOD",CALC SH
483.6			COAL	1.4	64.4	
482.2			ROCK	0.2	65.8	"FALSE BTM"
482.0			SANDSTONE	3.0	66.0	
479.0			SANDY SHALE	6.0	69.0	
473.0			SANDSTONE	4.5	75.0	
468.5			COAL	0.5	79.5	
468.0			SANDY SHALE	7.5	80.0	
460.5			SANDSTONE	5.5	87.5	
455.0			SHALE	1.0	93.0	DARK
454.0			COAL	1.0	94.0	
453.0			SHALE	28.0	95.0	

MAPID: 05700111000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 8

QUARTERS/FOOTAGES: 750' S line, 900' W line of NW

QUADRANGLE: FIATT

LONGITUDE: -90.196197

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.518742

DATE COLLECTED: 10 / 19 / 1917

SURFACE ELEVATION (FT.): 553.0

LOGGED (FT.): 135.0

LOG TYPE: Drillers Log

SOURCE: STAR COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
553.0			UNCONSOLIDATED	12.0	0.0	
541.0	CARBONDALE	PURINGTON	SHALE	18.0	12.0	
523.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	30.0	FISSILE
521.0	CARBONDALE	FRANCIS CREEK	SHALE	9.8	32.0	
511.2	CARBONDALE	COLCHESTER	COAL	2.0	41.8	BASE OF CARBONDALE
509.2	SPOON		SHALE	6.3	43.8	
503.0	SPOON	ISABEL	SANDSTONE	3.0	50.0	
500.0	SPOON		SHALE	10.0	53.0	
490.0	SPOON	WILEY	COAL	1.0	63.0	
489.0	SPOON		SHALE	31.5	64.0	
457.5	SPOON		SANDSTONE	3.0	95.5	
454.5	SPOON		SHALE	2.8	98.5	
451.7	SPOON	DELONG	COAL	0.5	101.3	
451.2	SPOON		SANDY SHALE	1.7	101.8	
449.5	SPOON		BLACK SHALE	3.3	103.5	FISSILE
446.2	SPOON	HERMON	COAL	4.2	106.8	
442.0	SPOON		SANDSTONE	0.3	111.0	
441.7	SPOON	SEVILLE	LIMESTONE	10.8	111.3	
430.9	SPOON		SHALE	4.1	122.1	DARK
426.8	SPOON	ROCK ISLAND	COAL	4.4	126.2	
422.4	SPOON		SHALE	0.2	130.6	BS SPOON; BIT
422.2	ABBOTT		SANDY SHALE	4.3	130.8	

MAPID: 05700112000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 8 QUARTERS/FOOTAGES: SW

QUADRANGLE: FIATT LONGITUDE: -90.194694 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.51305 DATE COLLECTED:

SURFACE ELEVATION (FT.): 661.0 LOGGED (FT.): 281.7 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.0			UNCONSOLIDATED	24.3	0.0	
636.7	CARBONDALE		SANDY SHALE	11.3	24.3	
625.5	CARBONDALE	VERMILIONVILLE	SANDSTONE	27.4	35.5	
598.1	CARBONDALE		SHALE	1.2	62.9	
596.9	CARBONDALE	TURNER MINE	BLACK SHALE	2.8	64.1	FISSILE
594.1	CARBONDALE	SPRINGFIELD	COAL	4.6	66.9	
589.5	CARBONDALE		SHALE	1.5	71.5	
588.0	CARBONDALE		SANDSTONE	3.5	73.0	
584.5	CARBONDALE		SANDY SHALE	16.5	76.5	
568.0	CARBONDALE	HANOVER	LIMESTONE	1.0	93.0	"CAP RK"
567.0	CARBONDALE	HOUCHIN CREEK	COAL	0.7	94.0	
566.3	CARBONDALE	PURINGTON	SHALE	11.4	94.7	
554.9	CARBONDALE	LOWELL	COAL	2.8	106.1	
552.1	CARBONDALE	JAKE CREEK	SANDSTONE	14.3	108.9	
537.8	CARBONDALE	FRANCIS CREEK	SHALE	42.4	123.2	
495.4	CARBONDALE	COLCHESTER	COAL	2.5	165.6	BASE OF CARBONDALE
492.9	SPOON		SHALE	2.0	168.1	
490.9	SPOON	ISABEL	SANDSTONE	12.0	170.1	
478.9	SPOON		SANDY SHALE	4.4	182.1	
474.5	SPOON	WILEY	COAL	0.9	186.5	
473.6	SPOON	SEAHORNE LS	LIMESTONE	3.0	187.4	"HD RK"
470.6	SPOON		SANDY SHALE	37.8	190.4	
432.7	SPOON		SANDSTONE	51.4	228.3	
381.3	SPOON	ROCK ISLAND	COAL	0.3	279.7	
381.1	SPOON		ROCK	0.4	279.9	BS SPOON;"FALSE BTM"
380.7	ABBOTT	BERNADOTTE	SANDSTONE	1.3	280.3	

MAPID: 05700113000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 8 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SE NW

QUADRANGLE: FIATT LONGITUDE: -90.192283 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.516671 DATE COLLECTED:

SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 75.9 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			UNCONSOLIDATED	26.2	0.0	
623.8	CARBONDALE	VERMILIONVILLE	SANDSTONE	42.1	26.2	
581.7	CARBONDALE		SHALE	1.0	68.3	
580.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	69.3	FISSILE
579.2	CARBONDALE	SPRINGFIELD	COAL	4.5	70.8	
574.7	CARBONDALE		SHALE	0.6	75.3	

MAPID: 05700114000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 8 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SE NE SW

QUADRANGLE: FIATT LONGITUDE: -90.191119 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.513054 DATE COLLECTED:

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 76.5 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0			UNCONSOLIDATED	17.0	0.0	
623.0	CARBONDALE	VERMILIONVILLE	SANDSTONE	18.5	17.0	
604.5	CARBONDALE		SHALE	1.0	35.5	
603.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.4	36.5	FISSILE
601.1	CARBONDALE	SPRINGFIELD	COAL	4.8	38.9	
596.3	CARBONDALE		UNDERCLAY	32.8	43.7	

MAPID: 05700115000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 8 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NE SE

QUADRANGLE: FIATT LONGITUDE: -90.182717 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.516659 DATE COLLECTED:

SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 64.5 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.0			UNCONSOLIDATED	27.6	0.0	
582.4	CARBONDALE	BRERETON	LIMESTONE	3.8	27.6	
578.7	CARBONDALE		SHALE	1.0	31.3	DARK
577.7	CARBONDALE	ANNA	BLACK SHALE	0.7	32.3	FISSILE
577.0	CARBONDALE	HERRIN	COAL WITH SHALE	6.2	33.0	2-IN + 5-IN CLS PTGS
570.8	CARBONDALE		UNDERCLAY	2.3	39.2	
568.5	CARBONDALE		SHALE	4.5	41.5	
564.0	CARBONDALE		LIMESTONE	3.3	46.0	
560.7	CARBONDALE		SHALE	8.8	49.3	
551.9	CARBONDALE		SANDSTONE	1.5	58.1	
550.4	CARBONDALE	ST. DAVID	SHALE	1.8	59.6	"CLOD",CALC SH
548.6	CARBONDALE	SPRINGFIELD	COAL	1.1	61.4	
547.5	CARBONDALE		ROCK	0.3	62.5	"FALSE BTM"
547.2	CARBONDALE		SHALE	1.7	62.8	

MAPID: 05700116000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 8 QUARTERS/FOOTAGES: SW SW NE NE

QUADRANGLE: FIATT LONGITUDE: -90.184456 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.520714 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 642.0 LOGGED (FT.): 61.7 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAEER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
642.0			UNCONSOLIDATED	38.0	0.0	
604.0	CARBONDALE		SHALE	1.0	38.0	
603.0	CARBONDALE		SANDSTONE	1.0	39.0	
602.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	40.0	FISSILE
601.0	CARBONDALE	SPRINGFIELD	COAL	2.8	41.0	
598.2	CARBONDALE		UNDERCLAY	1.8	43.8	
596.4	CARBONDALE		SHALE	0.3	45.6	
596.1	CARBONDALE		LIMESTONE	0.9	45.9	
595.2	CARBONDALE		SHALE	14.8	46.8	

MAPID: 05723451000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 8

QUARTERS/FOOTAGES: NW NE SW SE

QUADRANGLE: FIATT

LONGITUDE: -90.18695

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.512607

DATE COLLECTED: 3 / 20 / 1956

SURFACE ELEVATION (FT.): 662.0

LOGGED (FT.): 66.7

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-53-A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0			UNCONSOLIDATED	23.2	0.0	
638.8	CARBONDALE	BRERETON	LIMESTONE	3.8	23.2	"ROCK"
635.0	CARBONDALE		SHALE	0.5	27.0	DARK
634.5	CARBONDALE	ANNA	BLACK SHALE	0.7	27.5	FISSILE
633.8	CARBONDALE	HERRIN	COAL	6.0	28.2	
627.8	CARBONDALE		UNDERCLAY	17.7	34.2	
610.2	CARBONDALE		LIMESTONE	1.2	51.8	"ROCK"
609.0	CARBONDALE		SHALE	0.9	53.0	
608.1	CARBONDALE		COAL	1.7	53.9	
606.5	CARBONDALE		SHALE	5.7	55.5	
600.8	CARBONDALE	ST. DAVID	LIMESTONE	0.7	61.2	"ROCK"
600.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.1	61.8	FISSILE
600.1	CARBONDALE	SPRINGFIELD	COAL	4.8	61.9	

MAPID: 05723462000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 8

QUARTERS/FOOTAGES: 245' S line, 155' E line of NE SE SE

QUADRANGLE: FIATT

LONGITUDE: -90.180968

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.51194

DATE COLLECTED: 12 / 8 / 1953

SURFACE ELEVATION (FT.): 660.0

LOGGED (FT.): 52.7

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-53-A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	16.8	0.0	
643.2	CARBONDALE		SHALE	1.3	16.8	DARK
642.0	CARBONDALE	ANNA	BLACK SHALE	0.5	18.0	FISSILE
641.5	CARBONDALE	HERRIN	COAL	5.5	18.5	
636.0	CARBONDALE		SHALE	16.5	24.0	
619.5	CARBONDALE	ST. DAVID	LIMESTONE	3.3	40.5	"ROCK"
616.2	CARBONDALE		SHALE	2.7	43.8	DARK
613.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	46.5	FISSILE
612.2	CARBONDALE	SPRINGFIELD	COAL	4.8	47.8	

MAPID: 05700117000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 9 QUARTERS/FOOTAGES: 30' S line, 10' E line of NW

QUADRANGLE: FIATT LONGITUDE: -90.170888 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.516732 DATE COLLECTED: 7 / 24 / 1905

SURFACE ELEVATION (FT.): 661.2 LOGGED (FT.): 63.1 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.2			UNCONSOLIDATED	33.0	0.0	
628.2	CARBONDALE	CANTON	SHALE	21.8	33.0	"SOAPSTONE"
606.4	CARBONDALE	ST. DAVID	LIMESTONE	1.9	54.8	"CLOD" LWR 1.33 FT
604.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	56.7	FISSILE
603.2	CARBONDALE	SPRINGFIELD	COAL	5.1	58.0	

MAPID: 05700118000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 9 QUARTERS/FOOTAGES: 800' N line, 0' E line

QUADRANGLE: FIATT LONGITUDE: -90.161221 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.521689 DATE COLLECTED: 0 / 0 / 1905

SURFACE ELEVATION (FT.): 660.9 LOGGED (FT.): 48.8 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.9			UNCONSOLIDATED	42.6	0.0	
618.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	42.6	FISSILE
616.6	CARBONDALE	SPRINGFIELD	COAL	4.6	44.3	

MAPID: 0570012000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 9 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE NW NE

QUADRANGLE: FIATT LONGITUDE: -90.165965 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.522074 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 60.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0			UNCONSOLIDATED	24.3	0.0	
630.7	CARBONDALE		SHALE	8.8	24.3	
621.9	CARBONDALE		SANDSTONE	2.5	33.1	
619.4	CARBONDALE	CANTON	SHALE	17.3	35.6	
602.1	CARBONDALE		SANDSTONE	0.7	52.9	
601.4	CARBONDALE	ST. DAVID	LIMESTONE	0.9	53.6	"CLOD,DK"
600.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	54.5	FISSILE
599.6	CARBONDALE	SPRINGFIELD	COAL	5.1	55.4	

MAPID: 05700121000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 9 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW NE

QUADRANGLE: FIATT LONGITUDE: -90.170723 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.522067 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 645.0 LOGGED (FT.): 50.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.0			UNCONSOLIDATED	24.8	0.0	
620.2	CARBONDALE	CANTON	SHALE	19.0	24.8	
601.2	CARBONDALE	ST. DAVID	LIMESTONE	0.6	43.8	"CLOD,DK"
600.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	44.4	FISSILE
599.3	CARBONDALE	SPRINGFIELD	COAL	4.8	45.7	

MAPID: 05700125000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 9 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NE

QUADRANGLE: FIATT LONGITUDE: -90.166115 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.516646 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 65.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	28.0	0.0	
632.0	CARBONDALE	CANTON	SHALE	30.1	28.0	
601.9	CARBONDALE		SANDSTONE	0.3	58.1	
601.7	CARBONDALE		SHALE	1.0	58.3	
600.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	59.3	FISSILE
599.3	CARBONDALE	SPRINGFIELD	COAL	4.8	60.7	

MAPID: 05700126000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 9 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE SE NE

QUADRANGLE: FIATT LONGITUDE: -90.161324 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.518458 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 71.7 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	29.0	0.0	
636.0	CARBONDALE	CANTON	SHALE	32.5	29.0	
603.5	CARBONDALE	ST. DAVID	LIMESTONE	1.4	61.5	
602.1	CARBONDALE		SHALE	2.8	62.9	
599.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	65.8	FISSILE
598.0	CARBONDALE	SPRINGFIELD	COAL	4.7	67.0	

MAPID: 05723464000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 9 QUARTERS/FOOTAGES: 40' S line, 60' W line of NW

QUADRANGLE: FIATT LONGITUDE: -90.180107 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.516768 DATE COLLECTED: 2 / 23 / 1954

SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 59.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-53-A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0			UNCONSOLIDATED	24.0	0.0	
631.0	CARBONDALE		SHALE	9.4	24.0	BLUE
621.6	CARBONDALE	ST. DAVID	LIMESTONE	0.5	33.4	"ROCK"
621.1	CARBONDALE		SHALE	0.9	33.9	DARK
620.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	34.8	FISSILE
619.1	CARBONDALE	SPRINGFIELD	COAL	5.1	35.9	
614.0	CARBONDALE		UNDERCLAY	2.7	41.0	
611.3	CARBONDALE		LIMESTONE	0.5	43.7	"ROCK"
610.8	CARBONDALE		SHALE	4.5	44.2	"SOAPSTONE"
606.3	CARBONDALE		LIMESTONE	0.8	48.7	"ROCK"
605.5	CARBONDALE		SHALE	10.3	49.5	"SOAPSTONE"

MAPID: 05723467000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 9 QUARTERS/FOOTAGES: 0' N line, 165' W line of SW NW SW SW

QUADRANGLE: FIATT LONGITUDE: -90.179806 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.512162 DATE COLLECTED: 11 / 17 / 1953

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 53.6 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-53-A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0			UNCONSOLIDATED	20.0	0.0	
642.0	CARBONDALE		LIMESTONE	5.3	20.0	"ROCK"
636.7	CARBONDALE		SHALE	15.7	25.3	GN
621.0	CARBONDALE	ST. DAVID	LIMESTONE	1.3	41.0	"ROCK"
619.7	CARBONDALE		SHALE	5.1	42.3	
614.6	CARBONDALE		SHALE	0.6	47.4	DARK
614.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	48.0	FISSILE
613.2	CARBONDALE	SPRINGFIELD	COAL	3.8	48.8	
609.4	CARBONDALE		UNDERCLAY	1.0	52.6	

MAPID: 05700127000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 10 QUARTERS/FOOTAGES: 660' N line, 900' E line of SW
 QUADRANGLE: FIATT LONGITUDE: -90.155204 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.514789 DATE COLLECTED: 7 / 26 / 1905
 SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 70.2 LOG TYPE: Drillers Log
 SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	26.2	0.0	
643.8	CARBONDALE		SHALE	7.8	26.2	"SOAPSTONE"
636.0	CARBONDALE		LIMESTONE	0.8	34.0	
635.2	CARBONDALE	CANTON	SHALE	25.3	34.8	"SOAPSTONE"
609.8	CARBONDALE	ST. DAVID	LIMESTONE	0.7	60.2	"CLOD"
609.2	CARBONDALE	TURNER MINE	BLACK SHALE	4.6	60.8	FISSILE
604.6	CARBONDALE	SPRINGFIELD	COAL	4.8	65.4	

MAPID: 05700128000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 10 QUARTERS/FOOTAGES: 35' S line, 15' E line of NE
 QUADRANGLE: FIATT LONGITUDE: -90.1425 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.516635 DATE COLLECTED: 7 / 29 / 1905
 SURFACE ELEVATION (FT.): 676.3 LOGGED (FT.): 72.8 LOG TYPE: Drillers Log
 SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.3			UNCONSOLIDATED	31.0	0.0	
645.3	CARBONDALE		SHALE	9.0	31.0	"SOAPSTONE"
636.3	CARBONDALE		BLACK SHALE	10.0	40.0	FISSILE
626.3	CARBONDALE	VERMILIONVILLE	SANDSTONE	3.0	50.0	
623.3	CARBONDALE	CANTON	SHALE	4.5	53.0	"SOAPSTONE"
618.8	CARBONDALE	ST. DAVID	LIMESTONE	1.3	57.5	"CAP ROCK"
617.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	58.8	FISSILE
616.0	CARBONDALE	SPRINGFIELD	COAL	10.0	60.3	
606.0	CARBONDALE		SANDSTONE	0.7	70.3	
605.4	CARBONDALE		SHALE	1.9	70.9	"SOAPSTONE"

MAPID: 057EC000460Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 11

QUARTERS/FOOTAGES: NW NE SE SE

QUADRANGLE: FIATT

LONGITUDE: -90.125278

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.512761

DATE COLLECTED:

SURFACE ELEVATION (FT.): 664.0

LOGGED (FT.): 62.3

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: DATA FROM BOOK OF DRILL RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.0			UNCONSOLIDATED	16.0	0.0	
648.0	CARBONDALE		SHALE	36.8	16.0	
611.2	CARBONDALE	ST. DAVID	LIMESTONE	1.6	52.8	"ROCK"
609.6	CARBONDALE		SHALE	1.2	54.4	
608.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	55.6	FISSILE
606.7	CARBONDALE	SPRINGFIELD	COAL	4.9	57.3	

MAPID: 057EC000521Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 11

QUARTERS/FOOTAGES: SE NE SE NE

QUADRANGLE: CANTON

LONGITUDE: -90.124022

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.519056

DATE COLLECTED:

SURFACE ELEVATION (FT.): 666.0

LOGGED (FT.): 55.8

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: DATA FROM BOOK OF DRILL RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.0			UNCONSOLIDATED	20.0	0.0	
646.0	CARBONDALE	CANTON	SHALE	27.0	20.0	
619.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	47.0	"ROCK"
618.5	CARBONDALE		SHALE	1.2	47.5	
617.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	48.7	FISSILE
616.0	CARBONDALE	SPRINGFIELD	COAL	5.8	50.0	

MAPID: 057EC000504Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 12

QUARTERS/FOOTAGES: NE NW NE SW

QUADRANGLE: CANTON

LONGITUDE: -90.116962

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.516353

DATE COLLECTED:

SURFACE ELEVATION (FT.): 677.0

LOGGED (FT.): 91.2

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: DATA FROM BOOK OF DRILL RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.0			UNCONSOLIDATED	26.0	0.0	
651.0	CARBONDALE	CANTON	SHALE	54.5	26.0	CTNS 0.5-FT BD LS ("ROCK") IN LWR 1/3
596.5	CARBONDALE	ST. DAVID	LIMESTONE	1.8	80.5	"ROCK"
594.7	CARBONDALE		SHALE	1.2	82.3	
593.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.1	83.5	FISSILE
591.4	CARBONDALE	SPRINGFIELD	COAL	5.2	85.6	
586.2	CARBONDALE		UNDERCLAY	0.4	90.8	

MAPID: 05700130000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 13

QUARTERS/FOOTAGES: SW SW NE SE

QUADRANGLE: ST. DAVID

LONGITUDE: -90.108885

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.499026

DATE COLLECTED: 2 / 15 / 1928

SURFACE ELEVATION (FT.): 654.7

LOGGED (FT.): 72.1

LOG TYPE: Drillers Log

SOURCE: W. G. H.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.7			UNCONSOLIDATED	26.0	0.0	
628.7	CARBONDALE	CANTON	SHALE	38.0	26.0	
590.7	CARBONDALE	ST. DAVID	LIMESTONE	0.6	64.0	"ROCK"
590.1	CARBONDALE		SHALE	0.7	64.6	
589.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	65.3	FISSILE
588.3	CARBONDALE		LIMESTONE	0.7	66.4	"ROCK"
587.6	CARBONDALE	SPRINGFIELD	COAL	5.0	67.1	

MAPID: 05700131000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 13 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SE
 QUADRANGLE: ST. DAVID LONGITUDE: -90.11422 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.498593 DATE COLLECTED: 2 / 27 / 1928
 SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 74.5 LOG TYPE: Drillers Log
 SOURCE: W. G. H. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	31.6	0.0	
628.4	CARBONDALE	VERMILIONVILLE	SANDSTONE	0.6	31.6	
627.8	CARBONDALE	CANTON	SHALE	32.3	32.2	
595.5	CARBONDALE	ST. DAVID	LIMESTONE	2.0	64.5	"ROCK"
593.5	CARBONDALE		SHALE	2.2	66.5	
591.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	68.7	FISSILE
590.3	CARBONDALE	SPRINGFIELD	COAL	4.8	69.7	

MAPID: 05700132000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 13 QUARTERS/FOOTAGES: 200' N line, 1700' W line
 QUADRANGLE: CANTON LONGITUDE: -90.117389 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.509075 DATE COLLECTED: 8 / 4 / 1905
 SURFACE ELEVATION (FT.): 678.2 LOGGED (FT.): 86.5 LOG TYPE: Drillers Log
 SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.2			UNCONSOLIDATED	28.3	0.0	
649.9	CARBONDALE	CANTON	SHALE	48.2	28.3	"SOAPSTONE"
601.7	CARBONDALE	ST. DAVID	LIMESTONE	0.8	76.5	
600.9	CARBONDALE		SHALE	1.5	77.3	"CLOD",CALC SH
599.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.8	78.8	FISSILE
596.5	CARBONDALE	SPRINGFIELD	COAL	4.8	81.7	

MAPID: 057EC000383Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 13

QUARTERS/FOOTAGES: SW SW NE NW

QUADRANGLE: CANTON

LONGITUDE: -90.118262

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.506416

DATE COLLECTED:

SURFACE ELEVATION (FT.): 681.0

LOGGED (FT.): 88.6

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: DATA FROM BOOK OF DRILL RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.0			UNCONSOLIDATED	37.0	0.0	
644.0	CARBONDALE		LIMESTONE	1.8	37.0	"ROCK"
642.2	CARBONDALE	CANTON	SHALE	42.0	38.8	
600.2	CARBONDALE	ST. DAVID	LIMESTONE	2.0	80.8	"ROCK","CLOD" LWR 1.5 FT
598.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	82.8	FISSILE
597.2	CARBONDALE	SPRINGFIELD	COAL	4.8	83.8	

MAPID: 057EC000283Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 13

QUARTERS/FOOTAGES: 0' S line, 0' E line of NE SW SW

QUADRANGLE: ST. DAVID

LONGITUDE: -90.118982

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.496783

DATE COLLECTED:

SURFACE ELEVATION (FT.): 669.0

LOGGED (FT.): 77.3

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: DATA FROM BOOK OF DRILL RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.0			UNCONSOLIDATED	28.0	0.0	
641.0	CARBONDALE	CANTON	SHALE	39.0	28.0	
602.0	CARBONDALE	ST. DAVID	LIMESTONE	1.5	67.0	"ROCK"
600.5	CARBONDALE	TURNER MINE	BLACK SHALE	3.3	68.5	FISSILE
597.2	CARBONDALE	SPRINGFIELD	COAL	5.4	71.8	

MAPID: 057EC000324Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 13

QUARTERS/FOOTAGES: SW NE NE SW

QUADRANGLE: CANTON

LONGITUDE: -90.115968

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.500898

DATE COLLECTED:

SURFACE ELEVATION (FT.): 668.0

LOGGED (FT.): 72.9

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: DATA FROM BOOK OF DRILL RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.0			UNCONSOLIDATED	30.0	0.0	
638.0	CARBONDALE	CANTON	SHALE	34.3	30.0	
603.7	CARBONDALE	ST. DAVID	LIMESTONE	1.4	64.3	"ROCK"
602.3	CARBONDALE		SHALE	0.7	65.7	
601.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	66.3	FISSILE
601.0	CARBONDALE	SPRINGFIELD	COAL	5.3	67.0	
595.7	CARBONDALE		UNDERCLAY	0.4	72.3	

MAPID: 05700133000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 14

QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SW

QUADRANGLE: LEWISTOWN

LONGITUDE: -90.137932

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.494859

DATE COLLECTED: 8 / 8 / 1929

SURFACE ELEVATION (FT.): 663.0

LOGGED (FT.): 57.5

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.0			UNCONSOLIDATED	39.0	0.0	
624.0	CARBONDALE	CANTON	SHALE	10.5	39.0	
613.5	CARBONDALE	ST. DAVID	LIMESTONE	0.6	49.5	
612.9	CARBONDALE		SHALE	0.9	50.1	
612.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	51.0	FISSILE
611.2	CARBONDALE	SPRINGFIELD	COAL WITH SHALE	5.7	51.8	7-IN CONC

MAPID: 05700134000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 14 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE SE NE SW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.13316 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.499465 DATE COLLECTED: 8 / 9 / 1929

SURFACE ELEVATION (FT.): 671.0 LOGGED (FT.): 83.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.0			UNCONSOLIDATED	26.3	0.0	
644.7	CARBONDALE		SHALE	2.1	26.3	
642.7	CARBONDALE	VERMILIONVILLE	SANDSTONE	10.0	28.3	
632.7	CARBONDALE	CANTON	SHALE	37.7	38.3	
595.0	CARBONDALE	ST. DAVID	LIMESTONE	0.8	76.0	
594.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	76.8	FISSILE
593.0	CARBONDALE	SPRINGFIELD	COAL	5.5	78.0	

MAPID: 05700135000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 14 QUARTERS/FOOTAGES: SW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.137904 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.498504 DATE COLLECTED: 8 / 12 / 1929

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 63.9 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	24.0	0.0	
646.0	CARBONDALE	CANTON	SHALE	30.0	24.0	
616.0	CARBONDALE	ST. DAVID	LIMESTONE	2.4	54.0	
613.6	CARBONDALE		SHALE	1.3	56.4	DARK
612.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	57.8	FISSILE
610.9	CARBONDALE	SPRINGFIELD	COAL	4.8	59.1	

MAPID: 057EC000356Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 14 QUARTERS/FOOTAGES: SE NW

QUADRANGLE: FIATT LONGITUDE: -90.135489 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.504002 DATE COLLECTED:

SURFACE ELEVATION (FT.): 645.0 LOGGED (FT.): 47.4 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM BOOK OF DRILL RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.0			UNCONSOLIDATED	17.8	0.0	
627.2	CARBONDALE	CANTON	SHALE	22.6	17.8	CTNS 5-IN LS ("ROCK") IN UPR 1/3
604.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.1	40.4	FISSILE
602.5	CARBONDALE	SPRINGFIELD	COAL	4.9	42.5	

MAPID: 057EC000379Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 14 QUARTERS/FOOTAGES: NE

QUADRANGLE: FIATT LONGITUDE: -90.128339 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.505922 DATE COLLECTED:

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 79.7 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM BOOK OF DRILL RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	29.0	0.0	
636.0	CARBONDALE	CANTON	SHALE	39.0	29.0	
597.0	CARBONDALE	ST. DAVID	LIMESTONE	1.1	68.0	"ROCK"
595.9	CARBONDALE		SHALE	2.1	69.1	
593.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.7	71.2	FISSILE
591.2	CARBONDALE	SPRINGFIELD	COAL	5.8	73.8	

MAPID: 057EC000299Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 14 QUARTERS/FOOTAGES: SE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.128432 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.498599 DATE COLLECTED:

SURFACE ELEVATION (FT.): 666.0 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM BOOK OF DRILL RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.0			UNCONSOLIDATED	21.8	0.0	
644.2	CARBONDALE	CANTON	SHALE	38.7	21.8	
605.5	CARBONDALE	ST. DAVID	LIMESTONE	0.7	60.5	"ROCK"
604.8	CARBONDALE		SHALE	2.3	61.2	
602.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	63.5	FISSILE
600.8	CARBONDALE	SPRINGFIELD	COAL	4.8	65.2	

MAPID: 05700137000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 15 QUARTERS/FOOTAGES: SE SE SE NW

QUADRANGLE: FIATT LONGITUDE: -90.15274 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.502582 DATE COLLECTED: 7 / 26 / 1905

SURFACE ELEVATION (FT.): 666.8 LOGGED (FT.): 92.0 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.8			UNCONSOLIDATED	34.0	0.0	
632.8	CARBONDALE	CANTON	SHALE	51.0	34.0	"SOAPSTONE"
581.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	85.0	FISSILE
580.6	CARBONDALE	SPRINGFIELD	COAL	5.3	86.2	
575.3	CARBONDALE		UNDERCLAY	0.5	91.5	

MAPID: 05700138000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 15 QUARTERS/FOOTAGES: 90' N line, 36' E line

QUADRANGLE: FIATT LONGITUDE: -90.142719 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.509126 DATE COLLECTED: 1 / 0 / 1928

SURFACE ELEVATION (FT.): 672.6 LOGGED (FT.): 92.7 LOG TYPE: Drillers Log

SOURCE: SALINE COUNTY COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.6			UNCONSOLIDATED	37.1	0.0	
635.5	CARBONDALE		SHALE	27.3	37.1	"SOAPSTONE"
608.2	CARBONDALE		BLACK SHALE	5.0	64.4	FISSILE
603.2	CARBONDALE	VERMILIONVILLE	SANDSTONE	14.0	69.4	
589.2	CARBONDALE	ST. DAVID	LIMESTONE	2.3	83.4	
586.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	85.7	FISSILE
585.8	CARBONDALE	SPRINGFIELD	COAL	5.8	86.8	

MAPID: 05700139000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 15 QUARTERS/FOOTAGES: 0' N line, 0' E line of SW SE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.147406 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.498478 DATE COLLECTED: 8 / 12 / 1929

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 72.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	19.7	0.0	
650.3	CARBONDALE	CANTON	SHALE	44.3	19.7	CONTAINS .33-FT LS BED
606.1	CARBONDALE	ST. DAVID	LIMESTONE	0.6	63.9	
605.5	CARBONDALE		SHALE	2.3	64.5	
603.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	66.8	FISSILE
602.4	CARBONDALE	SPRINGFIELD	COAL	5.3	67.6	

MAPID: 05701253000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 15 QUARTERS/FOOTAGES: 0' S line, 0' W line
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.161732 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.494922 DATE COLLECTED: 0 / 0 / 1926
 SURFACE ELEVATION (FT.): 628.8 LOGGED (FT.): 24.6 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
628.8			UNCONSOLIDATED	17.0	0.0	
611.8	CARBONDALE	ST. DAVID	LIMESTONE	1.0	17.0	"ROCK"
610.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	18.0	FISSILE
608.8	CARBONDALE	SPRINGFIELD	COAL	4.6	20.0	

MAPID: 05701254000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 15 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.156965 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.494896 DATE COLLECTED: 0 / 0 / 1926
 SURFACE ELEVATION (FT.): 660.3 LOGGED (FT.): 51.8 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.3			UNCONSOLIDATED	19.0	0.0	
641.3	CARBONDALE	VERMILIONVILLE	SANDSTONE	11.0	19.0	
630.3	CARBONDALE	CANTON	SHALE	16.0	30.0	
614.3	CARBONDALE	ST. DAVID	LIMESTONE	0.7	46.0	"ROCK"
613.6	CARBONDALE	SPRINGFIELD	COAL	5.2	46.7	

MAPID: 05701264000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 15 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.161701 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.49854 DATE COLLECTED: 0 / 0 / 1926
 SURFACE ELEVATION (FT.): 661.6 LOGGED (FT.): 62.2 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.6			UNCONSOLIDATED	30.0	0.0	
631.6	CARBONDALE	CANTON	SHALE	24.0	30.0	
607.6	CARBONDALE	ST. DAVID	LIMESTONE	0.7	54.0	"CAP ROCK"
606.9	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	54.7	FISSILE
604.6	CARBONDALE	SPRINGFIELD	COAL	5.2	57.0	

MAPID: 05701266000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 15 QUARTERS/FOOTAGES: SW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.156938 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.498519 DATE COLLECTED: 0 / 0 / 1926

SURFACE ELEVATION (FT.): 653.8 LOGGED (FT.): 41.8 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.8			UNCONSOLIDATED	17.0	0.0	
636.8	CARBONDALE	CANTON	SHALE	17.0	17.0	
619.8	CARBONDALE	ST. DAVID	LIMESTONE	0.7	34.0	"CAP ROCK"
619.1	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	34.7	FISSILE
617.1	CARBONDALE	SPRINGFIELD	COAL	5.2	36.7	

MAPID: 05701268000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 15 QUARTERS/FOOTAGES: 0' N line, 165' W line of NW NW SW SE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.151577 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.498496 DATE COLLECTED: 0 / 0 / 1926

SURFACE ELEVATION (FT.): 657.9 LOGGED (FT.): 57.3 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
657.9			UNCONSOLIDATED	17.0	0.0	
640.9	CARBONDALE	VERMILIONVILLE	SANDSTONE	2.0	17.0	
638.9	CARBONDALE	CANTON	SHALE	30.0	19.0	
608.9	CARBONDALE	ST. DAVID	LIMESTONE	0.7	49.0	"CAP ROCK"
608.2	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	49.7	FISSILE
605.7	CARBONDALE	SPRINGFIELD	COAL	5.1	52.2	

MAPID: 05701274000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 15

QUARTERS/FOOTAGES: SW SW SW NW

QUADRANGLE: FIATT

LONGITUDE: -90.161072

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.502608

DATE COLLECTED: 0 / 0 / 1926

SURFACE ELEVATION (FT.): 661.6

LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.6			UNCONSOLIDATED	30.0	0.0	
631.6	CARBONDALE	CANTON	SHALE	11.0	30.0	
620.6	CARBONDALE	ST. DAVID	LIMESTONE	0.7	41.0	"CAP ROCK"
619.9	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	41.7	FISSILE
616.9	CARBONDALE	SPRINGFIELD	COAL	5.3	44.7	

MAPID: 05701276000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 15

QUARTERS/FOOTAGES: 0' N line, 0' E line of SE SE SW NW

QUADRANGLE: FIATT

LONGITUDE: -90.156901

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.503047

DATE COLLECTED: 0 / 0 / 1926

SURFACE ELEVATION (FT.): 661.3

LOGGED (FT.): 77.5

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.3			UNCONSOLIDATED	40.0	0.0	
621.3	CARBONDALE	CANTON	SHALE	30.0	40.0	
591.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	70.0	FISSILE
589.3	CARBONDALE	SPRINGFIELD	COAL	5.5	72.0	

MAPID: 0570014000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 16 QUARTERS/FOOTAGES: 0' N line, 1320' W line

QUADRANGLE: FIATT LONGITUDE: -90.175676 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.509448 DATE COLLECTED: 7 / 24 / 1915

SURFACE ELEVATION (FT.): 674.6 LOGGED (FT.): 100.8 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.6			UNCONSOLIDATED	25.7	0.0	
648.9	CARBONDALE	CANTON	SHALE	21.5	25.7	"SOAPSTONE"
627.4	CARBONDALE	ST. DAVID	LIMESTONE	1.0	47.2	"CLOD"
626.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	48.2	FISSILE
624.7	CARBONDALE	SPRINGFIELD	COAL	4.4	49.9	
620.3	CARBONDALE		UNDERCLAY	5.3	54.3	
615.0	CARBONDALE		SHALE	7.3	59.6	"SOAPSTONE"
607.8	CARBONDALE		LIMESTONE	1.4	66.8	
606.3	CARBONDALE		SANDSTONE	32.5	68.3	

MAPID: 05700141000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 16 QUARTERS/FOOTAGES: 0' N line, 0' W line

QUADRANGLE: FIATT LONGITUDE: -90.180448 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.509468 DATE COLLECTED: 7 / 25 / 1915

SURFACE ELEVATION (FT.): 679.0 LOGGED (FT.): 82.3 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.0			UNCONSOLIDATED	41.0	0.0	
638.0	CARBONDALE	VERMILIONVILLE	SANDSTONE	22.0	41.0	
616.0	CARBONDALE	CANTON	SHALE	7.0	63.0	"SOAPSTONE"
609.0	CARBONDALE	ST. DAVID	LIMESTONE	1.3	70.0	"CAP ROCK"
607.7	CARBONDALE	TURNER MINE	BLACK SHALE	3.6	71.3	BK,FIS,CAPPED BY "CLOD"
604.1	CARBONDALE	SPRINGFIELD	COAL	5.4	74.9	
598.7	CARBONDALE		UNDERCLAY	1.0	80.3	
597.7	CARBONDALE		SANDSTONE	1.0	81.3	

MAPID: 05700142000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 16 QUARTERS/FOOTAGES: 0' S line, 1320' W line of NE

QUADRANGLE: FIATT LONGITUDE: -90.16633 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.502162 DATE COLLECTED: 7 / 20 / 1905

SURFACE ELEVATION (FT.): 677.5 LOGGED (FT.): 102.8 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.5			UNCONSOLIDATED	38.0	0.0	
639.5	CARBONDALE	VERMILIONVILLE	SANDSTONE	2.0	38.0	
637.5	CARBONDALE	CANTON	SHALE	7.0	40.0	"SOAPSTONE"
630.5	CARBONDALE	ST. DAVID	LIMESTONE	1.8	47.0	"CAP ROCK"
628.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	48.8	FISSILE
627.7	CARBONDALE	SPRINGFIELD	COAL	6.0	49.8	
621.7	CARBONDALE		SHALE	15.0	55.8	"SOAPSTONE"
606.7	CARBONDALE		SANDSTONE	32.0	70.8	

MAPID: 05700145000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 16 QUARTERS/FOOTAGES: SW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.175855 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.498535 DATE COLLECTED: 1 / 0 / 1928

SURFACE ELEVATION (FT.): 676.3 LOGGED (FT.): 43.5 LOG TYPE: Drillers Log

SOURCE: SALINE COUNTY COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.3			UNCONSOLIDATED	33.0	0.0	
643.3	CARBONDALE	ST. DAVID	LIMESTONE	1.0	33.0	"ROCK"
642.3	CARBONDALE		SHALE	2.0	34.0	"CLOD",CALC SH
640.3	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	36.0	FISSILE
637.3	CARBONDALE	SPRINGFIELD	COAL	4.5	39.0	

MAPID: 05700147000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FIATT LONGITUDE: -90.171101 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.502168 DATE COLLECTED: 0 / 0 / 1928

SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 51.7 LOG TYPE: Drillers Log

SOURCE: SALINE COUNTY COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.0			UNCONSOLIDATED	26.0	0.0	
649.0	CARBONDALE		SHALE	6.0	26.0	
643.0	CARBONDALE		SANDSTONE	6.0	32.0	
637.0	CARBONDALE	ST. DAVID	LIMESTONE	6.0	38.0	"CLOD"
631.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	44.0	FISSILE
629.0	CARBONDALE	SPRINGFIELD	COAL	4.7	46.0	
624.3	CARBONDALE		UNDERCLAY	1.0	50.7	

MAPID: 05701285000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 17 QUARTERS/FOOTAGES: NW SW SE SW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.194378 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.49624 DATE COLLECTED: 0 / 0 / 1913

SURFACE ELEVATION (FT.): 677.0 LOGGED (FT.): 1768.0 LOG TYPE: Drillers Log

SOURCE: GRAY WELL DRILLING CO. WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.0			UNCONSOLIDATED	34.0	0.0	
643.0	CARBONDALE	CANTON	SHALE	34.0	34.0	
609.0	CARBONDALE	ST. DAVID	LIMESTONE	4.0	68.0	
605.0	CARBONDALE	SPRINGFIELD	COAL	5.0	72.0	
600.0			SHALE	178.0	77.0	
422.0			ROCK	5.0	255.0	"HARD, BLACK"
417.0			SHALE	50.0	260.0	BASE OF PENNSYLVANIAN
367.0			LIMESTONE W/ SHALE	1458.0	310.0	MISSISSIPPIAN + OLDER

MAPID: 05723483000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 17 QUARTERS/FOOTAGES: 0' N line, 0' W line of NW NW NE NE

QUADRANGLE: FIATT LONGITUDE: -90.185205 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.509455 DATE COLLECTED: 3 / 26 / 1956

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 64.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-53-A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0			UNCONSOLIDATED	20.0	0.0	
642.0	CARBONDALE	BRERETON	LIMESTONE	2.0	20.0	"ROCK"
640.0	CARBONDALE		SHALE	0.5	22.0	DARK
639.5	CARBONDALE	ANNA	BLACK SHALE	1.7	22.5	FISSILE
637.8	CARBONDALE	HERRIN	COAL	6.3	24.2	
631.5	CARBONDALE		UNDERCLAY	18.5	30.5	
613.0	CARBONDALE		LIMESTONE	0.7	49.0	"ROCK"
612.3	CARBONDALE		SHALE	1.9	49.7	
610.4	CARBONDALE		COAL	0.6	51.6	
609.8	CARBONDALE		SHALE	4.8	52.2	
605.1	CARBONDALE	ST. DAVID	LIMESTONE	1.6	56.9	"ROCK"
603.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	58.5	FISSILE
602.5	CARBONDALE	SPRINGFIELD	COAL	5.0	59.5	

MAPID: 05723494000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 17 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE SW SE NE

QUADRANGLE: FIATT LONGITUDE: -90.182908 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.503086 DATE COLLECTED: 4 / 3 / 1956

SURFACE ELEVATION (FT.): 667.0 LOGGED (FT.): 87.9 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-53-A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.0			UNCONSOLIDATED	28.5	0.0	
638.5	CARBONDALE		SHALE	16.7	28.5	
621.8	CARBONDALE	BRERETON	LIMESTONE	4.8	45.2	"ROCK"
617.0	CARBONDALE		SHALE	0.5	50.0	DARK
616.5	CARBONDALE	ANNA	BLACK SHALE	1.2	50.5	FISSILE
615.3	CARBONDALE	HERRIN	COAL	6.2	51.7	
609.2	CARBONDALE		UNDERCLAY	13.2	57.8	
596.0	CARBONDALE		LIMESTONE	1.3	71.0	"ROCK"
594.7	CARBONDALE		SHALE	2.8	72.3	
592.0	CARBONDALE		COAL	1.0	75.0	
591.0	CARBONDALE		SHALE	2.8	76.0	
588.2	CARBONDALE	ST. DAVID	LIMESTONE	2.3	78.8	"ROCK"
585.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	81.2	FISSILE
583.9	CARBONDALE	SPRINGFIELD	COAL	4.8	83.1	

MAPID: 05723498000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 17 QUARTERS/FOOTAGES: 140' N line, 250' E line of SW NE NE

QUADRANGLE: FIATT LONGITUDE: -90.183759 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.50725 DATE COLLECTED: 4 / 5 / 1956

SURFACE ELEVATION (FT.): 663.0 LOGGED (FT.): 73.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.0			UNCONSOLIDATED	30.0	0.0	
633.0	CARBONDALE		SHALE	7.0	30.0	
626.0	CARBONDALE	BRERETON	LIMESTONE	2.5	37.0	"ROCK"
623.5	CARBONDALE		SHALE	0.5	39.5	DARK
623.0	CARBONDALE	HERRIN	COAL	5.3	40.0	
617.7	CARBONDALE		UNDERCLAY	20.2	45.3	
597.5	CARBONDALE	ST. DAVID	LIMESTONE	0.7	65.5	"ROCK"
596.8	CARBONDALE		SHALE	0.9	66.2	DARK
595.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	67.1	FISSILE
594.6	CARBONDALE	SPRINGFIELD	COAL	4.6	68.4	

MAPID: 05760072000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 18 **QUARTERS/FOOTAGES:** 80' N line, 1412' W line of SW
QUADRANGLE: FIATT **LONGITUDE:** -90.21073 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.501991 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 665.0 **LOGGED (FT.):** 58.3 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
612.0	CARBONDALE	SPRINGFIELD	COAL	5.3	53.0	

MAPID: 05760073000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 18 **QUARTERS/FOOTAGES:**
QUADRANGLE: FIATT **LONGITUDE:** -90.207735 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.502193 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 661.0 **LOGGED (FT.):** 64.9 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
601.2	CARBONDALE	SPRINGFIELD	COAL	5.2	59.8	

MAPID: 05760074000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 18 **QUARTERS/FOOTAGES:** 630' N line, 0' W line of SW
QUADRANGLE: FIATT **LONGITUDE:** -90.215844 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.500506 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 670.0 **LOGGED (FT.):** 48.6 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
627.0	CARBONDALE	SPRINGFIELD	COAL	5.6	43.0	

MAPID: 05760075000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 18 **QUARTERS/FOOTAGES:** 1440' N line, 1350' W line of SW
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.210977 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.49824 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 667.0 **LOGGED (FT.):** 52.8 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
619.5	CARBONDALE	SPRINGFIELD	COAL	5.3	47.5	

MAPID: 05760076000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 18 **QUARTERS/FOOTAGES:** 1440' N line, 40' W line of SE
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.209123 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.498228 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 669.0 **LOGGED (FT.):** 52.7 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.5	CARBONDALE	SPRINGFIELD	COAL	5.2	47.5	

MAPID: 05760077000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 18 **QUARTERS/FOOTAGES:** 710' S line, 190' E line
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.200441 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.496831 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 670.0 **LOGGED (FT.):** 70.4 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
604.6	CARBONDALE	SPRINGFIELD	COAL	5.0	65.4	

MAPID: 05760078000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 18 **QUARTERS/FOOTAGES:** 100' S line, 50' W line
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.215691 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.495204 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 678.0 **LOGGED (FT.):** 54.3 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.0	CARBONDALE	SPRINGFIELD	COAL	5.3	49.0	

MAPID: 05760079000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 18 **QUARTERS/FOOTAGES:** 0' S line, 0' E line of SE SE
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.199796 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.494871 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 670.0 **LOGGED (FT.):** 66.3 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
609.2	CARBONDALE	SPRINGFIELD	COAL	5.6	60.8	

MAPID: 05760080000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 18 **QUARTERS/FOOTAGES:** 0' S line, 0' W line of SE SE
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.204567 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.494887 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 674.0 **LOGGED (FT.):** 66.3 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
613.2	CARBONDALE	SPRINGFIELD	COAL	5.6	60.8	

MAPID: 05700152000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 19 **QUARTERS/FOOTAGES:** 0' S line, 0' W line of NW SW
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.21601 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.484033 **DATE COLLECTED:** 2 / 11 / 1928
SURFACE ELEVATION (FT.): 679.0 **LOGGED (FT.):** 41.0 **LOG TYPE:** Drillers Log
SOURCE: W. G. H. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.0			UNCONSOLIDATED	24.0	0.0	
655.0	CARBONDALE	CANTON	SHALE	9.7	24.0	
645.3	CARBONDALE	ST. DAVID	LIMESTONE	0.3	33.7	"ROCK"
645.0	CARBONDALE		SHALE	1.5	34.0	
643.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	35.5	FISSILE
642.2	CARBONDALE	SPRINGFIELD	COAL	4.2	36.8	

MAPID: 05760081000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 19 **QUARTERS/FOOTAGES:** 380' N line, 0' W line of SW
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.215978 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.486615 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 680.0 **LOGGED (FT.):** 54.3 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.2	CARBONDALE	SPRINGFIELD	COAL	4.5	49.8	

MAPID: 05760082000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 19 **QUARTERS/FOOTAGES:** 50' N line, 1420' W line of SW
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.210838 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.48751 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 678.0 **LOGGED (FT.):** 60.8 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.3	CARBONDALE	SPRINGFIELD	COAL	4.2	56.7	

MAPID: 05760083000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 19 **QUARTERS/FOOTAGES:**
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.207905 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.48764 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 673.0 **LOGGED (FT.):** 63.7 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
613.6	CARBONDALE	SPRINGFIELD	COAL	4.3	59.4	

MAPID: 05760084000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 19 **QUARTERS/FOOTAGES:** 1400' S line, 1260' E line of SW
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.213963 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.484257 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 668.0 **LOGGED (FT.):** 51.2 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.0	CARBONDALE	SPRINGFIELD	COAL	5.2	46.0	

MAPID: 05760085000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 19 **QUARTERS/FOOTAGES:** 0' S line, 0' W line
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.216055 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.480401 **DATE COLLECTED:** 2 / 15 / 1961
SURFACE ELEVATION (FT.): 675.0 **LOGGED (FT.):** 50.8 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.2	CARBONDALE	SPRINGFIELD	COAL	5.1	45.8	

MAPID: 05760086000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 19 QUARTERS/FOOTAGES: 0' S line, 360' E line of SW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.210736 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.480386 DATE COLLECTED: 2 / 15 / 1961

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 53.1 LOG TYPE: Drillers Log

SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM CS MAP 6-101 RCVD 2-15-61

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
613.7	CARBONDALE	SPRINGFIELD	COAL	4.8	48.3	

MAPID: 05700153000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 20 QUARTERS/FOOTAGES: 1004' N line, 24' E line

QUADRANGLE: LEWISTOWN LONGITUDE: -90.180737 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.49212 DATE COLLECTED: 6 / 24 / 1905

SURFACE ELEVATION (FT.): 679.5 LOGGED (FT.): 64.7 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.5			UNCONSOLIDATED	18.0	0.0	
661.5	CARBONDALE	BRERETON	LIMESTONE	1.0	18.0	"CLOD"
660.5	CARBONDALE	HERRIN	COAL	5.3	19.0	
655.2	CARBONDALE		SHALE	6.0	24.3	"SOAPSTONE"
649.2	CARBONDALE	VERMILIONVILLE	SANDSTONE	28.4	30.3	
620.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	58.7	FISSILE
619.8	CARBONDALE	SPRINGFIELD	COAL	5.0	59.7	

MAPID: 05700154000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 20 QUARTERS/FOOTAGES: 270' S line, 1300' E line of NW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.194967 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.488348 DATE COLLECTED: 6 / 22 / 1905

SURFACE ELEVATION (FT.): 676.5 LOGGED (FT.): 61.7 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.5			UNCONSOLIDATED	21.5	0.0	
655.0	CARBONDALE	BRERETON	LIMESTONE	3.3	21.5	
651.7	CARBONDALE	ANNA	BLACK SHALE	3.3	24.8	FISSILE
648.4	CARBONDALE	HERRIN	COAL	6.0	28.1	
642.4	CARBONDALE	CANTON	SHALE	15.4	34.1	"SOAPSTONE"
627.0	CARBONDALE	ST. DAVID	LIMESTONE	2.0	49.5	
625.0	CARBONDALE		SHALE	1.7	51.5	"CLOD",CALC SH
623.3	CARBONDALE	TURNER MINE	BLACK SHALE	3.5	53.2	FISSILE
619.8	CARBONDALE	SPRINGFIELD	COAL	5.0	56.7	

MAPID: 05700155000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 20 QUARTERS/FOOTAGES: 70' S line, 270' W line of SE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.189375 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.480495 DATE COLLECTED: 0 / 0 / 1905

SURFACE ELEVATION (FT.): 667.9 LOGGED (FT.): 50.7 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.9			UNCONSOLIDATED	29.1	0.0	
638.8	CARBONDALE	CANTON	SHALE	12.5	29.1	"SOAPSTONE"
626.3	CARBONDALE	ST. DAVID	LIMESTONE	1.8	41.6	
624.5	CARBONDALE		SHALE	1.3	43.4	"CLOD",CALC SH
623.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	44.8	FISSILE
622.1	CARBONDALE	SPRINGFIELD	COAL	4.8	45.8	

MAPID: 05700156000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 20 QUARTERS/FOOTAGES: 0' S line, 0' E line
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.180805 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.480258 DATE COLLECTED: 7 / 7 / 1905
 SURFACE ELEVATION (FT.): 669.2 LOGGED (FT.): 52.3 LOG TYPE: Drillers Log
 SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.2			UNCONSOLIDATED	30.0	0.0	
639.2	CARBONDALE	TURNER MINE	BLACK SHALE	5.6	30.0	FISSILE
633.6	CARBONDALE	SPRINGFIELD	COAL	5.0	35.6	
628.6	CARBONDALE		UNDERCLAY	3.6	40.6	
625.0	CARBONDALE		SHALE	8.1	44.2	"SOAPSTONE"

MAPID: 05700157000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 20 QUARTERS/FOOTAGES: 970' N line, 30' E line of NW SE
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.185635 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.484907 DATE COLLECTED: 7 / 3 / 1905
 SURFACE ELEVATION (FT.): 670.8 LOGGED (FT.): 62.8 LOG TYPE: Drillers Log
 SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.8			UNCONSOLIDATED	27.8	0.0	
643.0	CARBONDALE	CANTON	SHALE	7.1	27.8	"SOAPSTONE"
635.9	CARBONDALE	ST. DAVID	LIMESTONE	0.6	34.9	
635.3	CARBONDALE		SHALE	2.0	35.5	"CLOD",CALC SH
633.3	CARBONDALE	TURNER MINE	BLACK SHALE	3.3	37.5	FISSILE
630.0	CARBONDALE	SPRINGFIELD	COAL	5.3	40.8	
624.7	CARBONDALE		UNDERCLAY	6.0	46.1	
618.7	CARBONDALE		LIMESTONE	2.5	52.1	
616.2	CARBONDALE		SHALE	8.3	54.6	"SOAPSTONE"

MAPID: 05700158000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 20 QUARTERS/FOOTAGES: 345' N line, 40' E line of SE SE
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.180914 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.482964 DATE COLLECTED: 7 / 10 / 1905
 SURFACE ELEVATION (FT.): 674.5 LOGGED (FT.): 41.1 LOG TYPE: Drillers Log
 SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.5			UNCONSOLIDATED	24.0	0.0	
650.5	CARBONDALE	CANTON	SHALE	7.3	24.0	"SOAPSTONE"
643.2	CARBONDALE	ST. DAVID	LIMESTONE	1.2	31.3	
642.0	CARBONDALE		SHALE	1.0	32.5	"CLOD",CALC SH
641.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	33.5	FISSILE
638.5	CARBONDALE	SPRINGFIELD	COAL	5.1	36.0	

MAPID: 05700159000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 20 QUARTERS/FOOTAGES: 300' S line, 1300' W line of NE
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.185572 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.488411 DATE COLLECTED: 7 / 19 / 1905
 SURFACE ELEVATION (FT.): 680.6 LOGGED (FT.): 63.8 LOG TYPE: Drillers Log
 SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.6			UNCONSOLIDATED	22.0	0.0	
658.6	CARBONDALE	HERRIN	COAL	3.8	22.0	
654.8	CARBONDALE		UNDERCLAY	4.2	25.8	
650.6	CARBONDALE	BIG CREEK	SHALE	17.7	30.0	"SOAPSTONE"
632.9	CARBONDALE		LIMESTONE	0.3	47.7	
632.6	CARBONDALE	CANTON	SHALE	7.3	48.0	"SOAPSTONE"
625.3	CARBONDALE	ST. DAVID	LIMESTONE	0.6	55.3	
624.7	CARBONDALE		SHALE	0.8	55.9	"CLOD",CALC SH
623.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	56.8	FISSILE
621.3	CARBONDALE	SPRINGFIELD	COAL	4.6	59.3	

MAPID: 05700160000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 21 QUARTERS/FOOTAGES: 600' S line, 50' W line of SW NW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.180506 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.489229 DATE COLLECTED: 0 / 0 / 1906

SURFACE ELEVATION (FT.): 682.2 LOGGED (FT.): 281.0 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.2			UNCONSOLIDATED	27.0	0.0	
655.2	CARBONDALE		SHALE	24.5	27.0	"SOAPSTONE"
630.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	51.5	FISSILE
628.9	CARBONDALE	SPRINGFIELD	COAL	5.2	53.3	
623.8	CARBONDALE		UNDERCLAY	1.6	58.4	
622.2	CARBONDALE		LIMESTONE	1.5	60.0	"HARD BND"
620.7	CARBONDALE		SHALE	80.5	61.5	SOAPSTONE TOP,SDY MDL
540.2	CARBONDALE	OAK GROVE	LIMESTONE	0.5	142.0	"HARD BND"
539.7	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.7	142.5	FISSILE
539.0	CARBONDALE		GRAY SHALE	28.8	143.2	
510.2	CARBONDALE	COLCHESTER	COAL	2.3	172.0	BASE OF CARBONDALE
507.9	SPOON		UNDERCLAY	1.0	174.3	INCL 0.5 FT SLFR RK
506.9	SPOON		SHALE	16.2	175.3	GY,SDY
490.8	SPOON	WILEY	COAL	1.3	191.4	
489.4	SPOON		UNDERCLAY	3.3	192.8	
486.2	SPOON		SANDSTONE	9.0	196.0	
477.2	SPOON		GRAY SHALE	5.0	205.0	
472.2	SPOON		SANDSTONE	5.0	210.0	
467.2	SPOON		GRAY SHALE	9.0	215.0	
458.2	SPOON	HERMON	COAL	0.8	224.0	
457.4	SPOON		SHALE	6.3	224.8	LT AND DK GY
451.2	SPOON		BLACK SHALE	0.2	231.0	FISSILE
451.0	SPOON	ROCK ISLAND	COAL	4.0	231.2	
447.0	SPOON		BLACK SHALE	0.3	235.2	FISSILE
446.8	SPOON		UNDERCLAY	1.8	235.4	BASE OF SPOON
445.0	ABBOTT		SANDY SHALE	2.8	237.2	
442.2	ABBOTT		LIMESTONE	0.3	240.0	
441.9	ABBOTT		SANDSTONE	3.3	240.3	
438.6	ABBOTT		SHALE	1.0	243.6	"SOAPSTONE"
437.6	ABBOTT		BLACK SHALE	2.0	244.6	FISSILE
435.6	ABBOTT		LIMESTONE	0.2	246.6	
435.4	ABBOTT		BLACK SHALE	0.3	246.8	FISSILE
435.2	ABBOTT		UNDERCLAY	2.0	247.0	
433.2	ABBOTT		DARK GRAY SHALE	3.5	249.0	
429.7	ABBOTT		LIMESTONE	0.2	252.5	
429.5	ABBOTT		SHALE	9.3	252.7	DK GY.INTRLAMD W/ CL,FSL
420.2	ABBOTT		UNDERCLAY	6.0	262.0	
414.2	ABBOTT		BLACK SHALE	7.0	268.0	FISSILE
407.2	ABBOTT	MANLEY	COAL	2.2	275.0	

405.0	ABBOTT	BLACK SHALE	1.0	277.2	FISSILE
404.0	ABBOTT	SANDSTONE	2.8	278.2	CTNS BK FIS SH

MAPID: 05700160000C VERSION: 2

PROJECT: NCRDS87

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 21 QUARTERS/FOOTAGES: 600' S line, 50' W line of SW NW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.180506 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 40.489229 DATE COLLECTED: 0 / 0 / 1906

SURFACE ELEVATION (FT.): 682.0 LOGGED (FT.): 281.0 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL COMPANY WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.0			UNCONSOLIDATED	27.0	0.0	
655.0	CARBONDALE		SHALE	24.5	27.0	
630.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	51.5	
628.7	CARBONDALE	SPRINGFIELD	COAL	5.1	53.3	
623.6	CARBONDALE		UNDERCLAY	1.6	58.4	
622.0	CARBONDALE		UNCLASSIFIED	1.5	60.0	
620.5	CARBONDALE		SHALE	20.5	61.5	
600.0	CARBONDALE		UNCLASSIFIED	33.0	82.0	
567.0	CARBONDALE		GRAY SHALE	27.0	115.0	
540.0	CARBONDALE	OAK GROVE		0.5	142.0	
539.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.7	142.5	
538.8	CARBONDALE	FRANCIS CREEK	GRAY SHALE	28.8	143.2	
510.0	CARBONDALE	COLCHESTER	COAL	2.3	172.0	
507.7	SPOON		UNDERCLAY	0.5	174.3	
507.2	SPOON		UNCLASSIFIED	16.7	174.8	
490.6	SPOON	WILEY	COAL	1.3	191.4	
489.2	SPOON		UNDERCLAY	3.3	192.8	
486.0	SPOON		SANDSTONE	9.0	196.0	
477.0	SPOON		GRAY SHALE	5.0	205.0	
472.0	SPOON		SANDSTONE	5.0	210.0	
467.0	SPOON		GRAY SHALE	9.0	215.0	
458.0	SPOON		COAL	0.8	224.0	
457.2	SPOON		DARK SHALE	1.0	224.8	
456.2	SPOON		GRAY SHALE	5.3	225.8	
451.0	SPOON		BLACK SHALE	0.2	231.0	
450.8	SPOON	ROCK ISLAND	COAL	4.0	231.2	UNCERTAIN CORRELATION
446.8			UNCLASSIFIED	0.3	235.2	"SLATE"
446.6			UNDERCLAY	1.8	235.4	
444.8			UNCLASSIFIED	2.8	237.2	
442.0			LIMESTONE	0.3	240.0	
441.7			SANDSTONE	3.3	240.3	
438.4			SHALE	1.0	243.6	"SLATE"
437.4			UNCLASSIFIED	2.0	244.6	"SLATE"
435.4			LIMESTONE	0.2	246.6	
435.2			UNCLASSIFIED	0.3	246.8	"SLATE"
435.0			UNDERCLAY	2.0	247.0	
433.0			GRAY SHALE	3.5	249.0	
429.5			LIMESTONE	0.2	252.5	
429.3			DARK SHALE	9.3	252.7	"DKGY SLATE"

420.0	UNDERCLAY	3.0	262.0
417.0	UNCLASSIFIED	3.0	265.0
414.0	BLACK SHALE	7.0	268.0
407.0	COAL	2.2	275.0
404.8	UNCLASSIFIED	1.0	277.2 "SLATE"
403.8	SANDSTONE	2.8	278.2

MAPID: 05700161000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 21 **QUARTERS/FOOTAGES:** 0' S line, 0' W line of NW SE
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.171304 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.483926 **DATE COLLECTED:** 7 / 10 / 1905
SURFACE ELEVATION (FT.): 679.0 **LOGGED (FT.):** 66.8 **LOG TYPE:** Drillers Log
SOURCE: BIG CREEK COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.0			UNCONSOLIDATED	21.4	0.0	
657.6	CARBONDALE	BIG CREEK	SHALE	20.3	21.4	"SOAPSTONE"
637.2	CARBONDALE		LIMESTONE	6.0	41.8	
631.2	CARBONDALE	CANTON	SHALE	11.4	47.8	"SOAPSTONE"
619.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	59.2	
619.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	59.7	FISSILE
617.0	CARBONDALE	SPRINGFIELD	COAL	4.8	62.0	

MAPID: 05700163000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 21 **QUARTERS/FOOTAGES:** SW
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.176031 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.483921 **DATE COLLECTED:** 8 / 1 / 1905
SURFACE ELEVATION (FT.): 671.1 **LOGGED (FT.):** 35.8 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.1			UNCONSOLIDATED	18.3	0.0	
652.8	CARBONDALE	CANTON	SHALE	9.3	18.3	"SOAPSTONE"
643.6	CARBONDALE	ST. DAVID	LIMESTONE	1.2	27.5	
642.4	CARBONDALE		SHALE	1.2	28.7	"CLOD",CALC SH
641.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	29.8	FISSILE
639.9	CARBONDALE	SPRINGFIELD	COAL	4.7	31.2	

MAPID: 05701291000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 21 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.163061 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.481191 DATE COLLECTED: 11 / 25 / 1925

SURFACE ELEVATION (FT.): 667.1 LOGGED (FT.): 75.2 LOG TYPE: Drillers Log

SOURCE: NAWATNY, W. F. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.1			UNCONSOLIDATED	30.0	0.0	
637.1	CARBONDALE		LIMESTONE	0.8	30.0	"ROCK"
636.3	CARBONDALE	CANTON	SHALE	37.0	30.8	
599.3	CARBONDALE	ST. DAVID	LIMESTONE	0.7	67.8	"ROCK"
598.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.9	68.4	FISSILE
595.8	CARBONDALE	SPRINGFIELD	COAL	3.8	71.3	

MAPID: 05701293000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 21 QUARTERS/FOOTAGES: NW SE SE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.165405 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.483018 DATE COLLECTED: 11 / 28 / 1925

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 64.6 LOG TYPE: Drillers Log

SOURCE: NAWATNY, W. F. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	17.0	0.0	
643.0	CARBONDALE	BIG CREEK	SHALE	26.0	17.0	
617.0	CARBONDALE		LIMESTONE	0.3	43.0	"ROCK"
616.7	CARBONDALE	CANTON	SHALE	13.0	43.3	
603.7	CARBONDALE	ST. DAVID	LIMESTONE	0.7	56.3	"ROCK"
603.1	CARBONDALE		SHALE	0.5	56.9	
602.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	57.4	FISSILE
600.1	CARBONDALE	SPRINGFIELD	COAL	4.7	59.9	

MAPID: 0570130000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 21 QUARTERS/FOOTAGES: NE NE SE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.163001

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.486682

DATE COLLECTED: 12 / 1 / 1925

SURFACE ELEVATION (FT.): 646.4

LOGGED (FT.): 30.5

LOG TYPE: Drillers Log

SOURCE: NAWATNY, W. F.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.4			UNCONSOLIDATED	11.0	0.0	
635.4	CARBONDALE		LIMESTONE	0.5	11.0	"ROCK"
634.9	CARBONDALE	CANTON	SHALE	11.0	11.5	
623.9	CARBONDALE	ST. DAVID	LIMESTONE	0.8	22.5	"ROCK"
623.2	CARBONDALE		SHALE	0.4	23.2	
622.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	23.6	FISSILE
620.3	CARBONDALE	SPRINGFIELD	COAL	4.3	26.1	

MAPID: 05701303000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 21 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.170091

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.486673

DATE COLLECTED: 12 / 7 / 1925

SURFACE ELEVATION (FT.): 666.0

LOGGED (FT.): 58.5

LOG TYPE: Drillers Log

SOURCE: NAWATNY, W. F.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.0			UNCONSOLIDATED	22.0	0.0	
644.0			SHALE	11.0	22.0	
633.0			LIMESTONE	0.9	33.0	"ROCK"
632.1			SHALE	18.0	33.9	
614.1			BLACK SHALE	2.3	51.9	FISSILE
611.8			COAL	4.3	54.2	

MAPID: 05700165000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: LEWISTOWN LONGITUDE: -90.152262 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.487552 DATE COLLECTED: 0 / 0 / 1905

SURFACE ELEVATION (FT.): 654.7 LOGGED (FT.): 300.0 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.7			UNCONSOLIDATED	32.3	0.0	
622.4	CARBONDALE	TURNER MINE	BLACK SHALE	3.2	32.3	FISSILE
619.3	CARBONDALE	SPRINGFIELD	COAL	5.0	35.4	
614.3	CARBONDALE		UNDERCLAY	10.6	40.4	
603.7	CARBONDALE		SHALE	5.0	51.0	
598.7	CARBONDALE		LIMESTONE	5.0	56.0	
593.7	CARBONDALE		SANDY SHALE	8.0	61.0	
585.7	CARBONDALE		SANDSTONE	62.5	69.0	
523.2	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.5	131.5	FISSILE
522.7	CARBONDALE		SHALE	1.3	132.0	DK.SDY
521.4	CARBONDALE	FRANCIS CREEK	SHALE	26.3	133.3	
495.2	CARBONDALE	COLCHESTER	COAL	2.5	159.5	BASE OF CARBONDALE
492.7	SPOON		SHALE	1.7	162.0	
491.0	SPOON		UNDERCLAY	2.0	163.7	
489.0	SPOON	ISABEL	SANDSTONE	6.0	165.7	
483.0	SPOON		SHALE	8.3	171.7	
474.7	SPOON	WILEY	COAL	1.3	180.0	
473.4	SPOON		UNDERCLAY	5.4	181.3	
468.0	SPOON		SANDSTONE	2.0	186.7	
466.0	SPOON		SANDY SHALE	3.3	188.7	
462.7	SPOON		BLACK SHALE	0.7	192.0	FISSILE
462.0	SPOON		BLACK SHALE	3.3	192.7	SDY.STKS BK FIS SH
458.7	SPOON		SANDSTONE	5.0	196.0	
453.7	SPOON		SHALE	4.2	201.0	
449.5	SPOON		BLACK SHALE	0.7	205.2	FISSILE
448.9	SPOON		SHALE	2.2	205.8	
446.7	SPOON		SANDSTONE	16.0	208.0	
430.7	SPOON		SHALE	1.5	224.0	
429.2	SPOON	ROCK ISLAND	COAL	0.6	225.5	
428.6	SPOON		SHALE	0.3	226.1	BASE OF SPOON
428.3	ABBOTT	BERNADOTTE	SANDSTONE	6.6	226.4	
421.7	ABBOTT		SHALE	2.4	233.0	DARK
419.3	ABBOTT		LIMESTONE	0.6	235.4	
418.7	ABBOTT		SANDSTONE	1.0	236.0	
417.7	ABBOTT		SHALE	1.3	237.0	DARK
416.4	ABBOTT	POPE CREEK	COAL	1.3	238.3	
415.1	ABBOTT		SHALE	0.7	239.6	
414.4	ABBOTT		UNDERCLAY	1.0	240.3	
413.4	ABBOTT		SANDSTONE	8.1	241.3	

405.4	ABBOTT	TARTER	COAL	0.3	249.3	
405.1	ABBOTT		SANDSTONE	1.5	249.6	
403.6	ABBOTT		UNDERCLAY	2.5	251.1	
401.1	ABBOTT		SHALE	6.5	253.6	DARK
394.6	ABBOTT	MANLEY	COAL	0.7	260.1	
393.9	ABBOTT		UNDERCLAY	4.0	260.8	
389.9	ABBOTT		SHALE	2.4	264.8	DARK
387.5	ABBOTT		UNDERCLAY	1.7	267.2	
385.9	ABBOTT		SHALE	2.8	268.8	DARK
383.1	ABBOTT		SANDSTONE	0.8	271.6	
382.3	ABBOTT		SHALE	6.3	272.4	DARK
375.9	ABBOTT		SHALE	4.0	278.8	
371.9	ABBOTT		UNDERCLAY	3.0	282.8	
368.9	ABBOTT		SHALE	14.3	285.8	SDY 2.58 FT NEAR TOP

MAPID: 05700167000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:** 0' N line, 0' E line of NW
QUADRANGLE: LEWISTOWN **LONGITUDE:** -90.152197 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.49487 **DATE COLLECTED:** 8 / 10 / 1929
SURFACE ELEVATION (FT.): 662.0 **LOGGED (FT.):** 45.3 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
662.0			UNCONSOLIDATED	20.0	0.0	
642.0	CARBONDALE	CANTON	SHALE	1.5	20.0	
640.5	CARBONDALE	ST. DAVID	LIMESTONE	0.6	21.5	
639.9	CARBONDALE		SHALE	0.3	22.1	
639.7	CARBONDALE		COAL	0.2	22.3	
639.5	CARBONDALE		SHALE	16.8	22.5	
622.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	39.3	FISSILE
621.9	CARBONDALE	SPRINGFIELD	COAL	5.2	40.1	

MAPID: 05701323000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 22 QUARTERS/FOOTAGES: 264' S line, 0' E line of SW NW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.157029 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.488304 DATE COLLECTED: 7 / 1 / 1927
 SURFACE ELEVATION (FT.): 638.8 LOGGED (FT.): 18.3 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
638.8			UNCONSOLIDATED	10.0	0.0	
628.8	CARBONDALE	TURNER MINE	BLACK SHALE	4.0	10.0	FISSILE
624.8	CARBONDALE	SPRINGFIELD	COAL	4.3	14.0	

MAPID: 05701332000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 22 QUARTERS/FOOTAGES: 0' S line, 264' W line of NW NW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.160819 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.491255 DATE COLLECTED: 7 / 8 / 1926
 SURFACE ELEVATION (FT.): 662.2 LOGGED (FT.): 48.1 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.2			UNCONSOLIDATED	18.0	0.0	
644.2	CARBONDALE	CANTON	SHALE	21.0	18.0	SDY UPR 1/2
623.2	CARBONDALE	ST. DAVID	LIMESTONE	1.0	39.0	"ROCK"
622.2	CARBONDALE	TURNER MINE	BLACK SHALE	3.5	40.0	FISSILE
618.7	CARBONDALE	SPRINGFIELD	COAL	4.6	43.5	

MAPID: 05701337000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 22 QUARTERS/FOOTAGES: 528' S line, 528' W line of NE NW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.155079 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.492683 DATE COLLECTED: 7 / 7 / 1926
 SURFACE ELEVATION (FT.): 648.9 LOGGED (FT.): 44.5 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.9			UNCONSOLIDATED	22.0	0.0	
626.9	CARBONDALE	CANTON	SHALE	19.0	22.0	
607.9	CARBONDALE	SPRINGFIELD	COAL	3.5	41.0	

MAPID: 05701347000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 22 QUARTERS/FOOTAGES: 0' S line, 170' E line of SW SW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.157722 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.480258 DATE COLLECTED: 11 / 26 / 1925
 SURFACE ELEVATION (FT.): 622.4 LOGGED (FT.): 18.4 LOG TYPE: Drillers Log
 SOURCE: NAWATNY, W. F. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.4			UNCONSOLIDATED	12.3	0.0	
610.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	12.3	FISSILE
608.3	CARBONDALE	SPRINGFIELD	COAL	4.3	14.1	

MAPID: 05701348000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 22 QUARTERS/FOOTAGES: 180' N line, 20' E line of SW SW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.157149 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.48342 DATE COLLECTED: 11 / 27 / 1925
 SURFACE ELEVATION (FT.): 620.8 LOGGED (FT.): 22.0 LOG TYPE: Drillers Log
 SOURCE: NAWATNY, W. F. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.8			UNCONSOLIDATED	15.0	0.0	
605.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	15.0	FISSILE
603.3	CARBONDALE	SPRINGFIELD	COAL	4.5	17.5	

MAPID: 05701353000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 22 QUARTERS/FOOTAGES: 0' N line, 330' W line of SE SE SW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.153508 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.482069 DATE COLLECTED: 12 / 26 / 1925
 SURFACE ELEVATION (FT.): 642.8 LOGGED (FT.): 33.1 LOG TYPE: Drillers Log
 SOURCE: NAWATNY, W. F. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
642.8			UNCONSOLIDATED	23.0	0.0	
619.8	CARBONDALE	CANTON	SHALE	3.0	23.0	
616.8	CARBONDALE	ST. DAVID	LIMESTONE	0.1	26.0	"ROCK"
616.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	26.1	FISSILE
615.4	CARBONDALE	SPRINGFIELD	COAL	5.7	27.4	

MAPID: 05700169000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 23 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.133229 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.491225 DATE COLLECTED: 8 / 1 / 1929

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 61.1 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	19.0	0.0	
641.0	CARBONDALE	CANTON	SHALE	27.8	19.0	SDY TOP 7.25 FT
613.2	CARBONDALE	ST. DAVID	LIMESTONE	1.2	46.8	
612.0	CARBONDALE		SHALE	5.8	48.0	
606.2	CARBONDALE		SHALE	1.0	53.8	DARK
605.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	54.8	FISSILE
604.6	CARBONDALE	SPRINGFIELD	COAL	5.5	55.4	
599.1	CARBONDALE		UNDERCLAY	0.2	60.9	

MAPID: 05700171000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 23 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.133205 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.494898 DATE COLLECTED: 8 / 8 / 1929

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 70.9 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	30.0	0.0	
635.0	CARBONDALE	BIG CREEK	SHALE	25.0	30.0	
610.0	CARBONDALE		LIMESTONE	0.7	55.0	
609.3	CARBONDALE	CANTON	SHALE	6.0	55.7	
603.3	CARBONDALE		SANDSTONE	1.3	61.7	
602.1	CARBONDALE	ST. DAVID	LIMESTONE	0.7	62.9	
601.4	CARBONDALE		DARK GRAY SHALE	1.2	63.6	
600.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	64.8	FISSILE
599.6	CARBONDALE	SPRINGFIELD	COAL	5.5	65.4	

MAPID: 05700172000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 23 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE NE NE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.126115 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.494955 DATE COLLECTED: 8 / 5 / 1929

SURFACE ELEVATION (FT.): 671.0 LOGGED (FT.): 75.7 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.0			UNCONSOLIDATED	16.0	0.0	
655.0	CARBONDALE	CANTON	SHALE	50.8	16.0	
604.2	CARBONDALE	ST. DAVID	LIMESTONE	1.7	66.8	
602.6	CARBONDALE		DARK GRAY SHALE	1.8	68.4	
600.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	70.3	FISSILE
600.0	CARBONDALE	SPRINGFIELD	COAL WITH SHALE	4.7	71.0	2-FT CLS PTG

MAPID: 05700173000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 23 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW NE NE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.126136 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.491274 DATE COLLECTED: 8 / 3 / 1929

SURFACE ELEVATION (FT.): 663.0 LOGGED (FT.): 63.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.0			UNCONSOLIDATED	27.8	0.0	
635.2	CARBONDALE	CANTON	SHALE	27.2	27.8	
608.0	CARBONDALE	ST. DAVID	LIMESTONE	1.3	55.0	
606.7	CARBONDALE		SHALE	1.3	56.3	
605.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	57.6	FISSILE
604.5	CARBONDALE	SPRINGFIELD	COAL	4.5	58.5	

MAPID: 05700174000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 23 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.137984 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.48753 DATE COLLECTED: 8 / 14 / 1929
 SURFACE ELEVATION (FT.): 661.0 LOGGED (FT.): 53.2 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.0			UNCONSOLIDATED	29.0	0.0	
632.0	CARBONDALE	CANTON	SHALE	16.0	29.0	LWR 6 FT DK SH
616.0	CARBONDALE	ST. DAVID	LIMESTONE	0.6	45.0	
615.4	CARBONDALE		SHALE	1.3	45.6	
614.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	46.8	FISSILE
612.8	CARBONDALE	SPRINGFIELD	COAL	5.0	48.2	

MAPID: 05701357000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 23 QUARTERS/FOOTAGES: 0' S line, 264' W line of NW NW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.141733 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.491169 DATE COLLECTED: 7 / 3 / 1926
 SURFACE ELEVATION (FT.): 665.4 LOGGED (FT.): 56.0 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.4			UNCONSOLIDATED	30.0	0.0	
635.4	CARBONDALE	CANTON	SHALE	19.0	30.0	
616.4	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	49.0	FISSILE
613.4	CARBONDALE	SPRINGFIELD	COAL	4.0	52.0	

MAPID: 057EC000177Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 23

QUARTERS/FOOTAGES: SE SE SE NW

QUADRANGLE: LEWISTOWN

LONGITUDE: -90.133843

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.488011

DATE COLLECTED:

SURFACE ELEVATION (FT.): 644.0

LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: DATA FROM BOOK OF DRILL RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.0			UNCONSOLIDATED	18.0	0.0	
626.0	CARBONDALE	CANTON	SHALE	38.0	18.0	
588.0	CARBONDALE	ST. DAVID	LIMESTONE	1.8	56.0	"ROCK"
586.2	CARBONDALE		SHALE	0.4	57.8	
585.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	58.2	FISSILE
583.6	CARBONDALE	SPRINGFIELD	COAL	4.6	60.4	

MAPID: 057EC000135Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 23

QUARTERS/FOOTAGES: SW

QUADRANGLE: LEWISTOWN

LONGITUDE: -90.138008

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.483866

DATE COLLECTED:

SURFACE ELEVATION (FT.): 650.0

LOGGED (FT.): 81.5

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: DATA FROM BOOK OF DRILL RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			UNCONSOLIDATED	35.0	0.0	
615.0	CARBONDALE	CANTON	SHALE	35.0	35.0	
580.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	70.0	"ROCK"
579.5	CARBONDALE		SHALE	2.8	70.5	
576.7	CARBONDALE		LIMESTONE	0.8	73.3	CONC
576.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	74.0	FISSILE
574.2	CARBONDALE	SPRINGFIELD	COAL	5.7	75.8	

MAPID: 05700178000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 24

QUARTERS/FOOTAGES: 0' N line, 0' W line

QUADRANGLE: ST. DAVID

LONGITUDE: -90.123747

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.494976

DATE COLLECTED: 0 / 0 / 1905

SURFACE ELEVATION (FT.): 671.9

LOGGED (FT.): 284.8

LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.9			UNCONSOLIDATED	48.0	0.0	
623.9	CARBONDALE	CANTON	SHALE	0.8	48.0	"SOAPSTONE"
623.1	CARBONDALE	ST. DAVID	LIMESTONE	0.8	48.8	"CAP ROCK"
622.2	CARBONDALE		SHALE	8.8	49.7	"SOAPSTONE"
613.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	58.5	FISSILE
612.1	CARBONDALE	SPRINGFIELD	COAL	5.3	59.8	
606.8	CARBONDALE		UNDERCLAY	2.5	65.1	
604.3	CARBONDALE		LIMESTONE	1.3	67.6	"HARD ROCK"
603.1	CARBONDALE		SHALE	12.2	68.8	"SOAPSTONE"
590.9	CARBONDALE		SANDY SHALE	25.0	81.0	
565.9	CARBONDALE	PURINGTON	SHALE	47.0	106.0	
518.9	CARBONDALE	OAK GROVE	LIMESTONE	0.6	153.0	
518.3	CARBONDALE		SHALE	6.0	153.6	DARK
512.3	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	159.6	FISSILE
510.3	CARBONDALE	FRANCIS CREEK	SHALE	11.6	161.6	
498.7	CARBONDALE	COLCHESTER	COAL	2.5	173.2	BASE OF CARBONDALE
496.2	SPOON		UNDERCLAY	1.5	175.7	
494.7	SPOON		SHALE	3.3	177.2	
491.4	SPOON	ISABEL	SANDSTONE	5.0	180.5	
486.4	SPOON		SANDY SHALE	6.5	185.5	
479.9	SPOON	GREENBUSH	COAL	0.3	192.0	
479.6	SPOON		UNDERCLAY	0.4	192.3	
479.2	SPOON		LIMESTONE	0.7	192.7	
478.6	SPOON		SANDY SHALE	1.2	193.3	
477.4	SPOON		LIMESTONE	1.0	194.5	
476.4	SPOON		SANDSTONE	0.5	195.5	
475.9	SPOON		SANDY SHALE	2.3	196.0	
473.6	SPOON	WILEY	COAL	1.7	198.3	
471.9	SPOON		BLACK SHALE	0.2	200.0	FISSILE
471.7	SPOON		UNDERCLAY	3.8	200.2	
467.9	SPOON		SANDSTONE	9.0	204.0	
458.9	SPOON		SHALE	19.3	213.0	SS STKS
439.6	SPOON	HERMON	COAL	0.7	232.3	
438.9	SPOON		SANDSTONE	7.0	233.0	
431.9	SPOON		SHALE	6.5	240.0	
425.4	SPOON	SEVILLE	LIMESTONE	0.3	246.5	
425.1	SPOON	ROCK ISLAND	COAL	1.7	246.8	BASE OF SPOON
423.5	ABBOTT	BERNADOTTE	SANDSTONE	6.1	248.4	
417.4	ABBOTT		SHALE	28.4	254.5	

389.0	ABBOTT		UNDERCLAY	0.2	282.9
388.8	ABBOTT	MANLEY	COAL	1.0	283.1
387.8	ABBOTT		UNDERCLAY	0.7	284.1

MAPID: 05700179000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 24 **QUARTERS/FOOTAGES:** NE NE SW NE
QUADRANGLE: ST. DAVID **LONGITUDE:** -90.110114 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.490808 **DATE COLLECTED:** 12 / 21 / 1927
SURFACE ELEVATION (FT.): 634.2 **LOGGED (FT.):** 59.8 **LOG TYPE:** Drillers Log
SOURCE: W. G. H. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
634.2			UNCONSOLIDATED	22.0	0.0	
612.2	CARBONDALE	CANTON	SHALE	28.5	22.0	
583.7	CARBONDALE	ST. DAVID	LIMESTONE	0.7	50.5	"ROCK"
583.0	CARBONDALE		SHALE	1.6	51.2	
581.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	52.8	FISSILE
580.6	CARBONDALE		SHALE	1.0	53.6	
579.6	CARBONDALE	SPRINGFIELD	COAL	5.2	54.6	

MAPID: 05700180000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 3E **SECTION:** 24 **QUARTERS/FOOTAGES:** 0' N line, 0' W line of SW NE
QUADRANGLE: ST. DAVID **LONGITUDE:** -90.114271 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.49127 **DATE COLLECTED:** 2 / 16 / 1928
SURFACE ELEVATION (FT.): 654.9 **LOGGED (FT.):** 56.0 **LOG TYPE:** Drillers Log
SOURCE: W. G. H. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
654.9			UNCONSOLIDATED	30.0	0.0	
624.9	CARBONDALE	CANTON	SHALE	16.5	30.0	
608.4	CARBONDALE	ST. DAVID	LIMESTONE	1.8	46.5	"ROCK"
606.6	CARBONDALE		SHALE	1.4	48.3	
605.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	49.7	FISSILE
603.3	CARBONDALE	SPRINGFIELD	COAL	4.4	51.6	

MAPID: 05700181000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 24 QUARTERS/FOOTAGES: 0' S line, 330' W line of NE

QUADRANGLE: ST. DAVID LONGITUDE: -90.113089 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.487622 DATE COLLECTED: 2 / 16 / 1928

SURFACE ELEVATION (FT.): 656.1 LOGGED (FT.): 66.1 LOG TYPE: Drillers Log

SOURCE: W. G. H. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
656.1			UNCONSOLIDATED	22.0	0.0	
634.1	CARBONDALE	CANTON	SHALE	31.4	22.0	
602.7	CARBONDALE	ST. DAVID	LIMESTONE	0.6	53.4	"ROCK"
602.1	CARBONDALE		SHALE	4.8	54.0	
597.3	CARBONDALE		LIMESTONE	0.3	58.8	"ROCK"
596.9	CARBONDALE		SHALE	0.5	59.2	
596.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	59.7	FISSILE
595.4	CARBONDALE		LIMESTONE	0.3	60.7	"ROCK"
595.2	CARBONDALE		CLAYSTONE	3.0	60.9	
592.2	CARBONDALE		LIMESTONE	0.2	63.9	"ROCK"
592.0	CARBONDALE		CLAYSTONE	1.0	64.1	
591.0	CARBONDALE	SPRINGFIELD	COAL	1.0	65.1	

MAPID: 05700182000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 24 QUARTERS/FOOTAGES: SW SE SW NE

QUADRANGLE: ST. DAVID LONGITUDE: -90.111308 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.488079 DATE COLLECTED: 12 / 21 / 1927

SURFACE ELEVATION (FT.): 625.5 LOGGED (FT.): 47.3 LOG TYPE: Drillers Log

SOURCE: W. G. H. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
625.5			UNCONSOLIDATED	17.0	0.0	
608.5	CARBONDALE	CANTON	SHALE	22.0	17.0	
586.5	CARBONDALE	ST. DAVID	LIMESTONE	1.1	39.0	"ROCK"
585.4	CARBONDALE		SHALE	0.5	40.1	
584.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	40.6	FISSILE
583.4	CARBONDALE		LIMESTONE	0.4	42.1	"ROCK"
583.0	CARBONDALE		SHALE	0.3	42.5	
582.7	CARBONDALE	SPRINGFIELD	COAL	4.5	42.8	

MAPID: 05700183000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 24 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW NW NE

QUADRANGLE: ST. DAVID LONGITUDE: -90.114263 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.494009 DATE COLLECTED: 12 / 22 / 1927

SURFACE ELEVATION (FT.): 654.0 LOGGED (FT.): 64.3 LOG TYPE: Drillers Log

SOURCE: W. G. H. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.0			UNCONSOLIDATED	12.0	0.0	
642.0	CARBONDALE	CANTON	SHALE	36.0	12.0	
606.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	48.0	"ROCK"
605.0	CARBONDALE		SHALE	7.0	49.0	
598.0	CARBONDALE		LIMESTONE	0.6	56.0	"ROCK"
597.4	CARBONDALE		SHALE	0.5	56.6	
596.9	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	57.1	FISSILE
594.7	CARBONDALE	SPRINGFIELD	COAL	5.0	59.3	

MAPID: 05700184000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 24 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NE

QUADRANGLE: ST. DAVID LONGITUDE: -90.109514 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.494895 DATE COLLECTED: 12 / 20 / 1927

SURFACE ELEVATION (FT.): 650.4 LOGGED (FT.): 62.3 LOG TYPE: Drillers Log

SOURCE: W. G. H. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.4			UNCONSOLIDATED	30.0	0.0	
620.4	CARBONDALE	CANTON	SHALE	24.5	30.0	
595.9	CARBONDALE	ST. DAVID	LIMESTONE	0.5	54.5	"ROCK"
595.4	CARBONDALE		SHALE	0.3	55.0	
595.1	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	55.3	FISSILE
592.6	CARBONDALE	SPRINGFIELD	COAL	4.6	57.8	

MAPID: 05700185000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 24

QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: ST. DAVID

LONGITUDE: -90.105957

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.493969

DATE COLLECTED: 12 / 20 / 1927

SURFACE ELEVATION (FT.): 635.8

LOGGED (FT.): 73.0

LOG TYPE: Drillers Log

SOURCE: W. G. H.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.8			UNCONSOLIDATED	25.0	0.0	
610.8	CARBONDALE	CANTON	SHALE	39.0	25.0	
571.8	CARBONDALE	ST. DAVID	LIMESTONE	0.7	64.0	"ROCK"
571.1	CARBONDALE		SHALE	1.1	64.7	
570.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.6	65.8	FISSILE
567.5	CARBONDALE		LIMESTONE	0.3	68.3	"ROCK"
567.1	CARBONDALE	SPRINGFIELD	COAL	4.3	68.7	

MAPID: 05700186000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 25

QUARTERS/FOOTAGES: 0' S line, 0' W line of NW

QUADRANGLE: ST. DAVID

LONGITUDE: -90.123871

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.473001

DATE COLLECTED: 8 / 21 / 1929

SURFACE ELEVATION (FT.): 625.0

LOGGED (FT.): 32.8

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
625.0			UNCONSOLIDATED	26.0	0.0	
599.0	CARBONDALE		SHALE	1.0	26.0	
598.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	27.0	FISSILE
597.0	CARBONDALE	SPRINGFIELD	COAL	4.8	28.0	

MAPID: 05700187000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 25 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SW SE NW

QUADRANGLE: ST. DAVID LONGITUDE: -90.117918 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.473081 DATE COLLECTED: 8 / 21 / 1929

SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 44.9 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	30.0	0.0	
590.0	CARBONDALE	CANTON	SHALE	7.3	30.0	
582.7	CARBONDALE	ST. DAVID	LIMESTONE	0.3	37.3	
582.4	CARBONDALE		SHALE	0.7	37.6	
581.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	38.3	FISSILE
580.1	CARBONDALE	SPRINGFIELD	COAL	5.0	39.9	

MAPID: 05700189000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 25 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW

QUADRANGLE: ST. DAVID LONGITUDE: -90.123853 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.476621 DATE COLLECTED: 8 / 23 / 1929

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 30.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0			UNCONSOLIDATED	22.0	0.0	
618.0	CARBONDALE		SHALE	2.0	22.0	
616.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	24.0	FISSILE
615.0	CARBONDALE	SPRINGFIELD	COAL	5.0	25.0	

MAPID: 05700484000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 25 QUARTERS/FOOTAGES: 1800' S line, 400' E line of NW

QUADRANGLE: ST. DAVID LONGITUDE: -90.115762 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.478078 DATE COLLECTED: 6 / 0 / 1906

SURFACE ELEVATION (FT.): 540.3 LOGGED (FT.): 164.0 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
540.3			UNCONSOLIDATED	10.0	0.0	
530.3	CARBONDALE	PLEASANTVIEW	SANDSTONE	38.5	10.0	
491.8	CARBONDALE	PURINGTON	SHALE	9.7	48.5	DK @ TOP,SDY MDL 3 FT
482.1	CARBONDALE		SHALE	1.6	58.2	DARK
480.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.8	59.8	FISSILE
477.7	CARBONDALE		SHALE	0.8	62.6	DARK
477.0	CARBONDALE	COLCHESTER	COAL	2.8	63.3	BASE OF CARBONDALE
474.2	SPOON		UNDERCLAY	3.1	66.1	
471.1	SPOON	BROWNING	SANDSTONE	12.3	69.2	
458.8	SPOON		UNDERCLAY	0.5	81.5	
458.3	SPOON		LIMESTONE	0.5	82.0	
457.8	SPOON	ISABEL	SANDSTONE	1.6	82.5	
456.2	SPOON		SHALE	2.2	84.1	"SOAPSTONE"
454.0	SPOON	WILEY	COAL	0.6	86.3	
453.4	SPOON		UNDERCLAY	6.3	86.9	
447.1	SPOON		LIMESTONE	0.8	93.2	
446.3	SPOON		UNDERCLAY	3.5	94.0	
442.8	SPOON		SHALE	5.5	97.5	
437.3	SPOON		BLACK SHALE	2.7	103.0	FISSILE
434.6	SPOON		SANDY SHALE	2.8	105.7	
431.8	SPOON		SANDSTONE	1.5	108.5	
430.3	SPOON		SHALE	2.0	110.0	
428.3	SPOON		SANDSTONE	15.0	112.0	
413.3	SPOON		SHALE	24.7	127.0	
388.6	SPOON	ROCK ISLAND	COAL	4.4	151.7	
384.2	ABBOTT		BLACK SHALE	2.5	156.1	BS SPOON;BK;FIS;"ROTTEN"
381.6	ABBOTT	BERNADOTTE	SANDSTONE	1.0	158.7	
380.6	ABBOTT		BLACK SHALE	4.3	159.7	STKS BK FIS SH

MAPID: 05700190000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 26 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW NE NW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.138066 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.478389 DATE COLLECTED: 8 / 20 / 1929

SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 43.2 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	36.6	0.0	
583.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.4	36.6	BK,FIS, ERODED
583.0	CARBONDALE	SPRINGFIELD	COAL	6.2	37.0	

MAPID: 05700191000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 26 QUARTERS/FOOTAGES: 0' S line, 0' W line of NE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.133395 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.472964 DATE COLLECTED: 8 / 20 / 1929

SURFACE ELEVATION (FT.): 630.0 LOGGED (FT.): 36.2 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.0			UNCONSOLIDATED	25.8	0.0	
604.2	CARBONDALE	ST. DAVID	LIMESTONE	0.7	25.8	
603.5	CARBONDALE		SHALE	0.8	26.5	
602.7	CARBONDALE	TURNER MINE	BLACK SHALE	3.8	27.3	FISSILE
598.8	CARBONDALE	SPRINGFIELD	COAL	5.0	31.2	

MAPID: 05700192000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 26 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NE NE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.128585 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.478417 DATE COLLECTED: 8 / 19 / 1929

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 0.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0			UNCONSOLIDATED	19.2	0.0	
620.8	CARBONDALE	CANTON	SHALE	2.5	19.2	
618.3	CARBONDALE	ST. DAVID	LIMESTONE	0.3	21.7	
618.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	21.9	FISSILE
617.2	CARBONDALE	SPRINGFIELD	COAL	5.3	22.8	

MAPID: 05700193000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 26 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE NW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.133349 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.47659 DATE COLLECTED: 8 / 20 / 1929
 SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 34.5 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	22.0	0.0	
598.0	CARBONDALE	CANTON	SHALE	4.3	22.0	
593.7	CARBONDALE	ST. DAVID	LIMESTONE	0.3	26.3	
593.3	CARBONDALE		DARK GRAY SHALE	0.7	26.7	
592.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	27.3	FISSILE
590.7	CARBONDALE	SPRINGFIELD	COAL	5.2	29.3	

MAPID: 05701366000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 27 QUARTERS/FOOTAGES: 528' N line, 792' W line of NE
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.149488 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.478766 DATE COLLECTED: 7 / 20 / 1926
 SURFACE ELEVATION (FT.): 615.0 LOGGED (FT.): 16.3 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
615.0			UNCONSOLIDATED	8.0	0.0	
607.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	8.0	"CAP ROCK"
606.0	CARBONDALE		SHALE	1.0	9.0	
605.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	10.0	FISSILE
604.0	CARBONDALE	SPRINGFIELD	COAL	5.3	11.0	

MAPID: 057EC122700Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 27 QUARTERS/FOOTAGES: 0' S line, 60' W line
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.1618 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.465688 DATE COLLECTED: 5 / 21 / 1923
 SURFACE ELEVATION (FT.): 649.5 LOGGED (FT.): 29.5 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.5			UNCONSOLIDATED	22.0	0.0	
627.5	CARBONDALE	ST. DAVID	LIMESTONE	0.7	22.0	"CAP ROCK"
626.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	22.7	FISSILE
624.8	CARBONDALE	SPRINGFIELD	COAL	4.8	24.7	

MAPID: 057EC122730Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 27 QUARTERS/FOOTAGES: 60' S line, 570' E line of SW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.154601 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.465841 DATE COLLECTED: 2 / 21 / 1923
 SURFACE ELEVATION (FT.): 633.2 LOGGED (FT.): 37.7 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.2			UNCONSOLIDATED	24.0	0.0	
609.2	CARBONDALE	CANTON	SHALE	7.0	24.0	
602.2	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	31.0	FISSILE
600.2	CARBONDALE	SPRINGFIELD	COAL	4.7	33.0	

MAPID: 057EC122722Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 27 QUARTERS/FOOTAGES: 60' N line, 720' E line of SW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.155039 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.472798 DATE COLLECTED: 5 / 21 / 1923
 SURFACE ELEVATION (FT.): 638.3 LOGGED (FT.): 27.7 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
638.3			UNCONSOLIDATED	22.0	0.0	
616.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	22.0	FISSILE
615.3	CARBONDALE	SPRINGFIELD	COAL	4.7	23.0	

MAPID: 057EC122702Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 27 QUARTERS/FOOTAGES: 54' N line, 0' W line of SW SW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.161985 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.469186 DATE COLLECTED: 5 / 21 / 1923
 SURFACE ELEVATION (FT.): 646.8 LOGGED (FT.): 26.8 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.8			UNCONSOLIDATED	22.0	0.0	
624.8	CARBONDALE	SPRINGFIELD	COAL	4.8	22.0	

MAPID: 05700198000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 28 QUARTERS/FOOTAGES: 10' S line, 40' E line of NW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.171571 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.473006 DATE COLLECTED: 6 / 21 / 1905

SURFACE ELEVATION (FT.): 674.8 LOGGED (FT.): 66.8 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.8			UNCONSOLIDATED	29.3	0.0	
645.5	CARBONDALE	VERMILIONVILLE	SANDSTONE	30.3	29.3	
615.2	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	59.6	FISSILE
613.0	CARBONDALE	SPRINGFIELD	COAL	4.9	61.8	

MAPID: 05700199000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 28 QUARTERS/FOOTAGES: 70' N line, 175' W line of NE NW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.175448 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.48007 DATE COLLECTED: 7 / 19 / 1905

SURFACE ELEVATION (FT.): 679.2 LOGGED (FT.): 44.3 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.2			UNCONSOLIDATED	20.4	0.0	
658.8	CARBONDALE	CANTON	SHALE	16.2	20.4	"SOAPSTONE"
642.6	CARBONDALE	ST. DAVID	LIMESTONE	0.9	36.6	
641.7	CARBONDALE		SHALE	0.9	37.5	"CLOD",CALC SH
640.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	38.4	FISSILE
639.7	CARBONDALE	SPRINGFIELD	COAL	4.8	39.5	

MAPID: 057EC122815Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 28 QUARTERS/FOOTAGES: 0' S line, 1060' W line of NW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.177073 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.472975 DATE COLLECTED: 5 / 21 / 1923

SURFACE ELEVATION (FT.): 657.3 LOGGED (FT.): 46.8 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
657.3			UNCONSOLIDATED	40.0	0.0	
617.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	40.0	FISSILE
615.3	CARBONDALE	SPRINGFIELD	COAL	4.8	42.0	

MAPID: 057EC122817Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 28 QUARTERS/FOOTAGES: 1170' N line, 480' W line
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.179115 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.477031 DATE COLLECTED: 5 / 21 / 1923
 SURFACE ELEVATION (FT.): 665.8 LOGGED (FT.): 39.7 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.8			UNCONSOLIDATED	24.0	0.0	
641.8	CARBONDALE	CANTON	SHALE	8.0	24.0	
633.8	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	32.0	FISSILE
630.8	CARBONDALE	SPRINGFIELD	COAL	4.7	35.0	

MAPID: 057EC122842Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 28 QUARTERS/FOOTAGES: 1200' N line, 45' E line of SW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.171625 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.469667 DATE COLLECTED: 5 / 21 / 1923
 SURFACE ELEVATION (FT.): 648.6 LOGGED (FT.): 39.0 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.6			UNCONSOLIDATED	24.0	0.0	
624.6	CARBONDALE	CANTON	SHALE	7.5	24.0	
617.1	CARBONDALE	ST. DAVID	LIMESTONE	0.7	31.5	"CAP ROCK"
616.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	32.2	FISSILE
614.4	CARBONDALE	SPRINGFIELD	COAL	4.8	34.2	

MAPID: 057EC122847Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 28 QUARTERS/FOOTAGES: 60' S line, 60' E line of NE NW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.1716 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.476789 DATE COLLECTED: 5 / 21 / 1923
 SURFACE ELEVATION (FT.): 677.0 LOGGED (FT.): 60.5 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.0			UNCONSOLIDATED	20.0	0.0	
657.0	CARBONDALE	CANTON	SHALE	33.5	20.0	
623.5	CARBONDALE	ST. DAVID	LIMESTONE	1.0	53.5	"CAP ROCK"
622.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	54.5	FISSILE
621.5	CARBONDALE	SPRINGFIELD	COAL	5.0	55.5	

MAPID: 057EC122849Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 28 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.171345 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.480267 DATE COLLECTED: 5 / 21 / 1923
 SURFACE ELEVATION (FT.): 681.4 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.4			UNCONSOLIDATED	20.0	0.0	
661.4	CARBONDALE	CANTON	SHALE	32.0	20.0	
629.4	CARBONDALE	ST. DAVID	LIMESTONE	1.0	52.0	"CAP ROCK"
628.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	53.0	FISSILE
626.4	CARBONDALE	SPRINGFIELD	COAL	5.0	55.0	

MAPID: 057EC122894Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 28 QUARTERS/FOOTAGES: 565' N line, 60' E line of SE
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.16218 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.471423 DATE COLLECTED: 5 / 21 / 1923
 SURFACE ELEVATION (FT.): 649.3 LOGGED (FT.): 32.3 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.3			UNCONSOLIDATED	24.0	0.0	
625.3	CARBONDALE	ST. DAVID	LIMESTONE	1.3	24.0	"CAP ROCK"
624.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	25.3	FISSILE
622.0	CARBONDALE	SPRINGFIELD	COAL	5.0	27.3	

MAPID: 057EC122812Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 28 QUARTERS/FOOTAGES: 0' N line, 970' W line of SW SW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.177446 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.469331 DATE COLLECTED: 5 / 21 / 1923
 SURFACE ELEVATION (FT.): 647.6 LOGGED (FT.): 47.7 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
647.6			UNCONSOLIDATED	43.0	0.0	
604.6	CARBONDALE	SPRINGFIELD	COAL	4.7	43.0	

MAPID: 05700201000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 29 QUARTERS/FOOTAGES: 945' N line, 60' W line of NE NE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.18539 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.477673 DATE COLLECTED: 7 / 14 / 1905

SURFACE ELEVATION (FT.): 664.9 LOGGED (FT.): 37.3 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.9			UNCONSOLIDATED	22.0	0.0	
642.9	CARBONDALE	CANTON	SHALE	6.3	22.0	"SOAPSTONE"
636.6	CARBONDALE	ST. DAVID	LIMESTONE	1.5	28.3	
635.1	CARBONDALE		SHALE	1.3	29.8	"CLOD",CALC SH
633.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	31.1	FISSILE
632.3	CARBONDALE	SPRINGFIELD	COAL	4.8	32.6	

MAPID: 05700204000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 30 QUARTERS/FOOTAGES: 380' S line, 1250' W line of SE NW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.209722 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.474173 DATE COLLECTED: 6 / 1 / 1917

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 47.0 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	37.0	0.0	
623.0	CARBONDALE		SHALE	1.5	37.0	DARK
621.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	38.5	FISSILE
619.7	CARBONDALE	SPRINGFIELD	COAL	5.0	40.3	
614.7	CARBONDALE		UNDERCLAY	1.8	45.3	

MAPID: 05700207000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 30 QUARTERS/FOOTAGES: 25' N line, 50' E line of NW NW

QUADRANGLE: LEWISTOWN LONGITUDE: -90.212199 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.480322 DATE COLLECTED: 5 / 21 / 1917

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 53.5 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	20.0	0.0	
650.0	CARBONDALE	CANTON	SHALE	2.0	20.0	
648.0	CARBONDALE		COAL	2.0	22.0	
646.0	CARBONDALE	CANTON	SHALE	11.0	24.0	
635.0	CARBONDALE	ST. DAVID	LIMESTONE	3.0	35.0	
632.0	CARBONDALE		SANDY SHALE	7.5	38.0	
624.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	45.5	FISSILE
622.0	CARBONDALE	SPRINGFIELD	COAL	4.3	48.0	
617.7	CARBONDALE		UNDERCLAY	1.0	52.3	
616.7	CARBONDALE		LIMESTONE	2.0	53.3	

MAPID: 05700211000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 32

QUARTERS/FOOTAGES: NE NE SE

QUADRANGLE: LEWISTOWN

LONGITUDE: -90.182236

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.45753

DATE COLLECTED: 3 / 25 / 1915

SURFACE ELEVATION (FT.): 630.0

LOGGED (FT.): 195.2

LOG TYPE: Drillers Log

SOURCE: SCRIPPS, WM.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.0			UNCONSOLIDATED	35.0	0.0	
595.0	CARBONDALE	PURINGTON	SHALE	37.2	35.0	
557.8	CARBONDALE	OAK GROVE	LIMESTONE	0.5	72.2	"GY BLDR"
557.3	CARBONDALE	JAKE CREEK	SANDSTONE	40.7	72.7	
516.7	CARBONDALE	FRANCIS CREEK	SHALE	2.0	113.3	
514.7	CARBONDALE	COLCHESTER	COAL	2.4	115.3	BASE OF CARBONDALE
512.2	SPOON		UNDERCLAY	6.3	117.8	SDY
506.0	SPOON		SANDSTONE	4.4	124.0	
501.6	SPOON		SANDY SHALE	1.9	128.4	
499.7	SPOON		LIMESTONE	1.5	130.3	"GY BLDR"
498.2	SPOON		SHALE	2.6	131.8	
495.6	SPOON		ROCK	4.3	134.4	"FALSE TOP"
491.2	SPOON	WILEY	COAL	0.5	138.8	
490.7	SPOON		UNDERCLAY	7.8	139.3	SDY
483.0	SPOON		SANDSTONE	4.2	147.0	
478.8	SPOON		SHALE	14.3	151.2	LCLY SDY
464.5	SPOON		SANDSTONE	1.0	165.5	
463.5	SPOON		SHALE	12.0	166.5	
451.5	SPOON	SEVILLE	LIMESTONE	11.2	178.5	
440.3	SPOON	ROCK ISLAND	COAL	2.2	189.7	
438.2	SPOON		ROCK	1.5	191.8	"FALSE BOTTOM"
436.7	SPOON		SHALE	1.2	193.3	BASE OF SPOON
435.5	ABBOTT	BERNADOTTE	SANDSTONE	0.7	194.5	

MAPID: 05700212000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 3E

SECTION: 32

QUARTERS/FOOTAGES: NW NE SW

QUADRANGLE: LEWISTOWN

LONGITUDE: -90.194154

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.457607

DATE COLLECTED: 4 / 1 / 1915

SURFACE ELEVATION (FT.): 540.0

LOGGED (FT.): 165.4

LOG TYPE: Drillers Log

SOURCE: SCRIPPS, WM.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
540.0			UNCONSOLIDATED	20.5	0.0	
519.5	CARBONDALE	PURINGTON	SHALE	10.7	20.5	
508.8	CARBONDALE	LOWELL	COAL	2.0	31.2	
506.8	CARBONDALE		SHALE	4.8	33.2	
502.0	CARBONDALE	JAKE CREEK	SANDSTONE	9.0	38.0	
493.0	CARBONDALE	FRANCIS CREEK	SHALE	5.3	47.0	
487.7	CARBONDALE	COLCHESTER	COAL	1.1	52.3	BASE OF CARBONDALE
486.7	SPOON		UNDERCLAY	5.3	53.3	
481.3	SPOON	BROWNING	SANDSTONE	1.7	58.7	
479.7	SPOON		SHALE	36.1	60.3	SDY 8 FT IN MDL
443.6	SPOON	ISABEL	SANDSTONE	6.3	96.4	
437.4	SPOON		SHALE	30.9	102.6	SDY TOP 18.17 FT
406.4	SPOON		BLACK SHALE	7.5	133.6	FISSILE
398.9	SPOON		ROCK	0.2	141.1	SULFUR BAND
398.8	SPOON	ROCK ISLAND	COAL	0.4	141.2	
398.3	SPOON		UNDERCLAY	6.0	141.7	BASE OF SPOON
392.3	ABBOTT	BERNADOTTE	SANDSTONE	1.2	147.7	BASE OF PENNSYLVANIAN
391.2			LIMESTONE	16.6	148.8	MISSISSIPPIAN

MAPID: 05700213000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 33 QUARTERS/FOOTAGES: 106' N line, 106' W line of SE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.171228 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.458136 DATE COLLECTED: 11 / 0 / 1905

SURFACE ELEVATION (FT.): 613.7 LOGGED (FT.): 219.3 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
613.7			ROCK	32.0	0.0	"DUG WELL", INCL UNC
581.7	CARBONDALE	PURINGTON	SHALE	85.0	32.0	
496.7	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.0	117.0	FISSILE
495.7	CARBONDALE	COLCHESTER	COAL	3.0	118.0	BASE OF CARBONDALE
492.7	SPOON		SHALE	18.0	121.0	"SOAPSTONE"
474.7	SPOON		BLACK SHALE	0.5	139.0	FISSILE
474.2	SPOON	WILEY	COAL	1.5	139.5	
472.7	SPOON		SHALE	3.0	141.0	"SOAPSTONE"
469.7	SPOON		SANDSTONE	30.0	144.0	
439.7	SPOON		LIMESTONE	3.0	174.0	
436.7	SPOON		SANDSTONE	3.0	177.0	
433.7	SPOON		BLACK SHALE	0.2	180.0	FISSILE
433.5	SPOON		SHALE	9.0	180.2	"SOAPSTONE"
424.5	SPOON	ROCK ISLAND	COAL	5.2	189.2	
419.4	SPOON		UNDERCLAY	0.5	194.3	BASE OF SPOON
418.9	ABBOTT	BERNADOTTE	SANDSTONE	16.0	194.8	
402.9	ABBOTT		COAL	2.5	210.8	
400.4	ABBOTT	POPE CREEK	SANDSTONE	6.0	213.3	

MAPID: 057EC123319Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 33 QUARTERS/FOOTAGES: 40' N line, 600' W line

QUADRANGLE: LEWISTOWN LONGITUDE: -90.178829 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.465579 DATE COLLECTED: 5 / 21 / 1923

SURFACE ELEVATION (FT.): 644.2 LOGGED (FT.): 32.0 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.2			UNCONSOLIDATED	27.0	0.0	
617.2	CARBONDALE	SPRINGFIELD	COAL	5.0	27.0	

MAPID: 057EC123347Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 33 QUARTERS/FOOTAGES: 1070' N line, 510' E line of NW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.17339 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.462737 DATE COLLECTED: 5 / 21 / 1923
 SURFACE ELEVATION (FT.): 642.5 LOGGED (FT.): 33.2 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
642.5			UNCONSOLIDATED	26.0	0.0	
616.5	CARBONDALE	ST. DAVID	LIMESTONE	1.0	26.0	"CAP ROCK"
615.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	27.0	FISSILE
614.0	CARBONDALE	SPRINGFIELD	COAL	4.7	28.5	

MAPID: 057EC123377Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 33 QUARTERS/FOOTAGES: 1280' N line, 1120' E line
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.166137 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.462157 DATE COLLECTED: 5 / 21 / 1923
 SURFACE ELEVATION (FT.): 639.3 LOGGED (FT.): 21.0 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
639.3			UNCONSOLIDATED	19.0	0.0	
620.3	CARBONDALE	SPRINGFIELD	COAL	2.0	19.0	ERODED

MAPID: 057EC123397Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 33 QUARTERS/FOOTAGES:
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.171607 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.458429 DATE COLLECTED: 5 / 21 / 1923
 SURFACE ELEVATION (FT.): 633.4 LOGGED (FT.): 26.0 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.4			UNCONSOLIDATED	24.0	0.0	
609.4	CARBONDALE	SPRINGFIELD	COAL	2.0	24.0	ERODED

MAPID: 057EC123418Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 34 QUARTERS/FOOTAGES: 390' N line, 655' W line
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.159673 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.464608 DATE COLLECTED: 5 / 21 / 1923
 SURFACE ELEVATION (FT.): 639.6 LOGGED (FT.): 29.8 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
639.6			UNCONSOLIDATED	24.0	0.0	
615.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	24.0	FISSILE
614.6	CARBONDALE	SPRINGFIELD	COAL	4.8	25.0	

MAPID: 057EC123427Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 34 QUARTERS/FOOTAGES: 0' S line, 0' W line of NE NW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.157351 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.46206 DATE COLLECTED: 5 / 21 / 1923
 SURFACE ELEVATION (FT.): 632.2 LOGGED (FT.): 29.3 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
632.2			UNCONSOLIDATED	23.5	0.0	
608.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	23.5	FISSILE
607.2	CARBONDALE	SPRINGFIELD	COAL	4.3	25.0	

MAPID: 057EC123437Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 34 QUARTERS/FOOTAGES: 0' S line, 365' E line of NE NW
 QUADRANGLE: LEWISTOWN LONGITUDE: -90.15393 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.462059 DATE COLLECTED: 5 / 21 / 1923
 SURFACE ELEVATION (FT.): 628.8 LOGGED (FT.): 32.0 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
628.8			UNCONSOLIDATED	28.0	0.0	
600.8	CARBONDALE	SPRINGFIELD	COAL	4.0	28.0	

MAPID: 057EC123458Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 34 QUARTERS/FOOTAGES: 555' N line, 360' W line of NE

QUADRANGLE: LEWISTOWN LONGITUDE: -90.151273 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.464141 DATE COLLECTED: 5 / 21 / 1923

SURFACE ELEVATION (FT.): 630.5 LOGGED (FT.): 25.0 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION MAP 4103.F8 I5.1.45

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.5			UNCONSOLIDATED	21.0	0.0	
609.5	CARBONDALE	SPRINGFIELD	COAL	4.0	21.0	

MAPID: 05700214000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 3E SECTION: 35 QUARTERS/FOOTAGES: 300' N line, 30' W line

QUADRANGLE: LEWISTOWN LONGITUDE: -90.142977 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.464831 DATE COLLECTED: 0 / 0 / 1905

SURFACE ELEVATION (FT.): 511.8 LOGGED (FT.): 167.0 LOG TYPE: Drillers Log

SOURCE: SALINE COUNTY COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
511.8			UNCONSOLIDATED	26.0	0.0	
485.8	CARBONDALE		SHALE	3.0	26.0	"SOAPSTONE"
482.8	CARBONDALE		SANDSTONE	20.0	29.0	STKS BK FIS SH
462.8	CARBONDALE		UNDERCLAY	0.5	49.0	
462.3	CARBONDALE		SANDSTONE	1.5	49.5	
460.8	CARBONDALE		LIMESTONE	0.5	51.0	
460.3	CARBONDALE		BLACK SHALE	1.0	51.5	FISSILE
459.3	CARBONDALE		SHALE	13.0	52.5	"SOAPSTONE"
446.3	CARBONDALE		BLACK SHALE	0.5	65.5	FISSILE
445.8	CARBONDALE		UNDERCLAY	1.9	66.0	
443.9	CARBONDALE		BLACK SHALE	0.8	67.9	FISSILE
443.0	CARBONDALE		UNDERCLAY	4.2	68.8	
438.9	CARBONDALE		SANDSTONE	1.7	72.9	
437.2	CARBONDALE		SHALE	5.3	74.6	DARK
431.9	CARBONDALE	COLCHESTER	COAL	0.8	79.9	BASE OF CARBONDALE
431.0	SPOON		UNDERCLAY	1.2	80.8	
429.9	SPOON	BROWNING	SANDSTONE	10.1	81.9	
419.8	SPOON		SHALE	11.1	92.0	
408.7	SPOON	GREENBUSH	COAL	0.4	103.1	
408.3	SPOON		UNDERCLAY	5.0	103.5	
403.3	SPOON		SHALE	7.9	108.5	DARK
395.4	SPOON	WILEY	COAL	1.8	116.4	
393.6	SPOON		UNDERCLAY	4.8	118.2	
388.8	SPOON		SHALE	10.5	123.0	
378.3	SPOON		BLACK SHALE	0.8	133.5	FISSILE
377.5	SPOON		UNDERCLAY	0.3	134.3	
377.3	SPOON		BLACK SHALE	0.3	134.5	FISSILE
377.0	SPOON		SANDY SHALE	5.3	134.8	
371.8	SPOON		SANDSTONE	3.3	140.0	
368.5	SPOON		ROCK	0.5	143.3	"WATER CREVICE"
368.0	SPOON		SANDSTONE	2.8	143.8	
365.3	SPOON	SEVILLE	LIMESTONE	20.5	146.5	

MAPID: 057EC000437Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 1 QUARTERS/FOOTAGES: SE

QUADRANGLE: BANNER LONGITUDE: -89.995879 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.527946 DATE COLLECTED:

SURFACE ELEVATION (FT.): 611.0 LOGGED (FT.): 40.5 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
611.0			UNCONSOLIDATED	33.0	0.0	
578.0	CARBONDALE		SHALE	3.0	33.0	
575.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.3	36.0	FISSILE
574.7	CARBONDALE	SPRINGFIELD	COAL	4.3	36.3	

MAPID: 057EC000485Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 1 QUARTERS/FOOTAGES: NW

QUADRANGLE: CANTON LONGITUDE: -90.005384 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.535273 DATE COLLECTED:

SURFACE ELEVATION (FT.): 621.0 LOGGED (FT.): 56.2 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.0			UNCONSOLIDATED	40.0	0.0	
581.0	CARBONDALE		SHALE	10.0	40.0	
571.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	50.0	FISSILE
570.2	CARBONDALE	SPRINGFIELD	COAL	5.3	50.8	

MAPID: 057EC000435Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 1 QUARTERS/FOOTAGES: SW

QUADRANGLE: CANTON LONGITUDE: -90.005399 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.527887 DATE COLLECTED:

SURFACE ELEVATION (FT.): 635.0 LOGGED (FT.): 64.3 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.0			UNCONSOLIDATED	47.0	0.0	
588.0	CARBONDALE		SHALE	11.7	47.0	
576.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	58.7	FISSILE
574.9	CARBONDALE	SPRINGFIELD	COAL	4.3	60.1	

MAPID: 057EC000487Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 1 QUARTERS/FOOTAGES: NE

QUADRANGLE: BANNER LONGITUDE: -89.99582 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.535324 DATE COLLECTED:

SURFACE ELEVATION (FT.): 615.0 LOGGED (FT.): 61.4 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
615.0			UNCONSOLIDATED	27.3	0.0	
587.7	CARBONDALE	CANTON	SHALE	27.7	27.3	SDY UPR 1/2
560.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	55.0	FISSILE
558.6	CARBONDALE	SPRINGFIELD	COAL	5.0	56.4	

MAPID: 057EC000461Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.00062 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.53161 DATE COLLECTED:

SURFACE ELEVATION (FT.): 626.0 LOGGED (FT.): 60.3 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS; 461C

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
626.0			UNCONSOLIDATED	40.0	0.0	
586.0	CARBONDALE	CANTON	SHALE	13.0	40.0	
573.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	53.0	"RK"
572.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	54.0	FISSILE
570.7	CARBONDALE	SPRINGFIELD	COAL	5.0	55.3	

MAPID: 057EC000458Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 4E

SECTION: 2

QUARTERS/FOOTAGES: SE SW SE NE

QUADRANGLE: CANTON

LONGITUDE: -90.013084

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.531976

DATE COLLECTED:

SURFACE ELEVATION (FT.): 635.0

LOGGED (FT.): 64.5

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS; 458B

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.0			UNCONSOLIDATED	20.0	0.0	
615.0	CARBONDALE	CANTON	SANDY SHALE	35.0	20.0	
580.0	CARBONDALE	ST. DAVID	LIMESTONE	1.1	55.0	"RK"
578.9	CARBONDALE		SHALE	1.0	56.1	
577.9	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	57.1	FISSILE
575.9	CARBONDALE	SPRINGFIELD	COAL	4.9	59.1	
571.0	CARBONDALE		UNDERCLAY	0.5	64.0	

MAPID: 057EC000457Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 4E

SECTION: 2

QUARTERS/FOOTAGES:

QUADRANGLE: CANTON

LONGITUDE: -90.01964

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.531512

DATE COLLECTED:

SURFACE ELEVATION (FT.): 645.0

LOGGED (FT.): 73.0

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.0			UNCONSOLIDATED	40.0	0.0	
605.0	CARBONDALE	CANTON	SANDY SHALE	25.8	40.0	
579.2	CARBONDALE	ST. DAVID	LIMESTONE	0.6	65.8	"RK"
578.7	CARBONDALE		SHALE	1.0	66.3	
577.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	67.3	FISSILE
576.8	CARBONDALE	SPRINGFIELD	COAL	4.2	68.2	
572.7	CARBONDALE		UNDERCLAY	0.7	72.3	

MAPID: 057EC000481Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 2 QUARTERS/FOOTAGES: NW

QUADRANGLE: CANTON LONGITUDE: -90.024394 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.53518 DATE COLLECTED:

SURFACE ELEVATION (FT.): 638.0 LOGGED (FT.): 56.0 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: COAL SECTION LOG-BOOK ENTRY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
638.0	CARBONDALE		UNCLASSIFIED	51.0	0.0	
587.0	CARBONDALE	SPRINGFIELD	COAL	5.0	51.0	

MAPID: 057EC000433Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 2 QUARTERS/FOOTAGES: SE

QUADRANGLE: CANTON LONGITUDE: -90.014894 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.527841 DATE COLLECTED:

SURFACE ELEVATION (FT.): 635.0 LOGGED (FT.): 71.1 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.0			UNCONSOLIDATED	32.0	0.0	
603.0	CARBONDALE	CANTON	SHALE	17.5	32.0	
585.5	CARBONDALE	ST. DAVID	LIMESTONE	0.2	49.5	"RK"
585.3	CARBONDALE		SHALE	15.5	49.7	SDY UPR 11.42 FT
569.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	65.2	FISSILE
569.2	CARBONDALE	SPRINGFIELD	COAL	4.3	65.8	
564.9	CARBONDALE		UNDERCLAY	1.0	70.1	

MAPID: 05700215000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 3 QUARTERS/FOOTAGES: SE NE

QUADRANGLE: CANTON LONGITUDE: -90.031482 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.533292 DATE COLLECTED:

SURFACE ELEVATION (FT.): 638.0 LOGGED (FT.): 61.2 LOG TYPE: Drillers Log

SOURCE: CANTON COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
638.0			UNCONSOLIDATED	24.0	0.0	
614.0	CARBONDALE		SHALE	3.0	24.0	
611.0	CARBONDALE	VERMILIONVILLE	SANDSTONE	3.0	27.0	
608.0	CARBONDALE	CANTON	SHALE	23.7	30.0	SDY UPR 18.33 FT
584.3	CARBONDALE	ST. DAVID	LIMESTONE	2.0	53.7	"CAP ROCK", "CLOD" LWR 1.42 FT
582.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	55.7	FISSILE
581.5	CARBONDALE	SPRINGFIELD	COAL	4.7	56.5	

MAPID: 05700216000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 4 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SE SE

QUADRANGLE: CANTON LONGITUDE: -90.050872 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.524173 DATE COLLECTED: 0 / 0 / 1928

SURFACE ELEVATION (FT.): 663.0 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAEER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.0			UNCONSOLIDATED	24.0	0.0	
639.0	CARBONDALE		SANDSTONE	1.0	24.0	
638.0	CARBONDALE		SHALE	32.3	25.0	
605.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.8	57.3	FISSILE
602.9	CARBONDALE	SPRINGFIELD	COAL	4.5	60.1	
598.4	CARBONDALE		UNDERCLAY	0.4	64.6	

MAPID: 05700220000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 7 QUARTERS/FOOTAGES: SE SE

QUADRANGLE: CANTON LONGITUDE: -90.089178 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.51156 DATE COLLECTED: 0 / 0 / 1928

SURFACE ELEVATION (FT.): 661.0 LOGGED (FT.): 58.7 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.0			UNCONSOLIDATED	33.0	0.0	
628.0	CARBONDALE	CANTON	SHALE	17.8	33.0	
610.2	CARBONDALE	ST. DAVID	LIMESTONE	0.9	50.8	
609.3	CARBONDALE		SHALE	0.8	51.7	
608.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	52.5	FISSILE
607.4	CARBONDALE	SPRINGFIELD	COAL	4.7	53.6	
602.7	CARBONDALE		UNDERCLAY	0.4	58.3	

MAPID: 05700221000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 7 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE SE SW

QUADRANGLE: CANTON LONGITUDE: -90.098705 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.513447 DATE COLLECTED: 0 / 0 / 1928

SURFACE ELEVATION (FT.): 645.0 LOGGED (FT.): 69.3 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.0			UNCONSOLIDATED	25.0	0.0	
620.0	CARBONDALE		ROCK	0.5	25.0	
619.5	CARBONDALE	CANTON	SHALE	32.8	25.5	
586.7	CARBONDALE	ST. DAVID	LIMESTONE	1.5	58.3	
585.2	CARBONDALE		SHALE	1.8	59.8	
583.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	61.7	FISSILE
581.8	CARBONDALE	SPRINGFIELD	COAL	4.8	63.2	
576.9	CARBONDALE		UNDERCLAY	1.3	68.1	

MAPID: 05700222000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 7 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE NE SW

QUADRANGLE: CANTON LONGITUDE: -90.098672 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.517086 DATE COLLECTED: 0 / 0 / 1928

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 70.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	21.5	0.0	
643.5	CARBONDALE	VERMILIONVILLE	SANDSTONE	4.0	21.5	
639.5	CARBONDALE	CANTON	SHALE	36.5	25.5	CONC IN LWR 1/3
603.0	CARBONDALE	ST. DAVID	LIMESTONE	1.1	62.0	
601.9	CARBONDALE		SHALE	1.3	63.1	
600.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	64.3	FISSILE
598.8	CARBONDALE	SPRINGFIELD	COAL	4.4	66.2	
594.4	CARBONDALE		UNDERCLAY	0.3	70.6	

MAPID: 05700223000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 7 QUARTERS/FOOTAGES: 0' S line, 0' W line

QUADRANGLE: CANTON LONGITUDE: -90.104621 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.509847 DATE COLLECTED: 0 / 0 / 1928

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0			UNCONSOLIDATED	25.0	0.0	
615.0	CARBONDALE	CANTON	SHALE	50.7	25.0	
564.3	CARBONDALE	ST. DAVID	LIMESTONE	0.3	75.7	
564.0	CARBONDALE		SHALE	1.5	76.0	
562.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	77.5	FISSILE
560.5	CARBONDALE	SPRINGFIELD	COAL	4.8	79.5	
555.7	CARBONDALE		UNDERCLAY	0.7	84.3	

MAPID: 05700229000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 7 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE SE
 QUADRANGLE: CANTON LONGITUDE: -90.091195 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.517038 DATE COLLECTED: 1 / 7 / 1928
 SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 39.8 LOG TYPE: Drillers Log
 SOURCE: W. G. H. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	15.0	0.0	
605.0	CARBONDALE	CANTON	SHALE	17.6	15.0	
587.4	CARBONDALE	ST. DAVID	LIMESTONE	0.2	32.6	"ROCK"
587.2	CARBONDALE		SHALE	0.9	32.8	
586.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	33.7	FISSILE
584.8	CARBONDALE	SPRINGFIELD	COAL	4.7	35.2	

MAPID: 05700230000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 7 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE
 QUADRANGLE: CANTON LONGITUDE: -90.08674 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.517008 DATE COLLECTED: 1 / 10 / 1928
 SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 65.7 LOG TYPE: Drillers Log
 SOURCE: W. G. H. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	28.0	0.0	
632.0	CARBONDALE	CANTON	SHALE	29.8	28.0	
602.2	CARBONDALE	ST. DAVID	LIMESTONE	0.9	57.8	"ROCK"
601.2	CARBONDALE		SHALE	1.3	58.8	
599.9	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	60.1	FISSILE
599.1	CARBONDALE	SPRINGFIELD	COAL WITH SHALE	4.8	60.9	2 CLY PTGS TOTAL 2.33 FT

MAPID: 05700433000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 8 QUARTERS/FOOTAGES: 175' N line, 175' E line of SW
 QUADRANGLE: CANTON LONGITUDE: -90.077849 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.516477 DATE COLLECTED: 0 / 0 / 1903
 SURFACE ELEVATION (FT.): 670.4 LOGGED (FT.): 68.7 LOG TYPE: Drillers Log
 SOURCE: SALINE COUNTY COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.4			UNCONSOLIDATED	15.0	0.0	
655.4	CARBONDALE		SANDSTONE	35.0	15.0	
620.4	CARBONDALE	CANTON	SHALE	10.0	50.0	"SOAPSTONE"
610.4	CARBONDALE	ST. DAVID	LIMESTONE	1.4	60.0	"CAP ROCK"
609.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.8	61.4	FISSILE
606.2	CARBONDALE	SPRINGFIELD	COAL	4.5	64.2	

MAPID: 05700231000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 9 QUARTERS/FOOTAGES: 30' N line, 40' E line of SW SE
 QUADRANGLE: CANTON LONGITUDE: -90.053535 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.513163 DATE COLLECTED: 0 / 0 / 1905
 SURFACE ELEVATION (FT.): 648.0 LOGGED (FT.): 153.9 LOG TYPE: Drillers Log
 SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.0			UNCONSOLIDATED	30.0	0.0	
618.0	CARBONDALE	CANTON	SHALE	17.5	30.0	"SOAPSTONE"
600.5	CARBONDALE	ST. DAVID	LIMESTONE	1.3	47.5	"CAP ROCK"
599.2	CARBONDALE		SHALE	0.8	48.8	"SOAPSTONE", DK
598.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.2	49.6	FISSILE
596.2	CARBONDALE	SPRINGFIELD	COAL	4.7	51.8	
591.6	CARBONDALE		UNDERCLAY	2.0	56.4	
589.6	CARBONDALE		SHALE	13.6	58.4	"SOAPSTONE"
576.0	CARBONDALE		COAL	0.3	72.0	"SL & COAL"
575.7	CARBONDALE		SHALE	3.8	72.3	"SOAPSTONE"
572.0	CARBONDALE		ROCK	2.0	76.0	
570.0	CARBONDALE		SANDSTONE	10.0	78.0	
560.0	CARBONDALE		SHALE	48.7	88.0	SDY UPR 1/3
511.3	CARBONDALE		BLACK SHALE	2.5	136.7	FISSILE
508.8	CARBONDALE	PURINGTON	SHALE	6.3	139.2	
502.5	CARBONDALE	OAK GROVE	LIMESTONE	2.2	145.5	
500.3	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	147.7	FISSILE
498.3	CARBONDALE	COLCHESTER	COAL	3.3	149.7	BASE OF CARBONDALE
495.1	SPOON		UNDERCLAY	1.0	152.9	

MAPID: 05700233000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 9 QUARTERS/FOOTAGES: 10' N line, 10' E line of NE SE
 QUADRANGLE: CANTON LONGITUDE: -90.048605 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.516855 DATE COLLECTED: 0 / 0 / 1928
 SURFACE ELEVATION (FT.): 653.0 LOGGED (FT.): 44.2 LOG TYPE: Drillers Log
 SOURCE: SALINE COUNTY COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.0			UNCONSOLIDATED	37.0	0.0	
616.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	37.0	"CAP ROCK"
615.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	37.4	FISSILE
613.3	CARBONDALE	SPRINGFIELD	COAL	4.5	39.7	

MAPID: 05700234000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 9 QUARTERS/FOOTAGES: 30' N line, 100' W line of NE SE
 QUADRANGLE: CANTON LONGITUDE: -90.052986 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.516805 DATE COLLECTED: 0 / 0 / 1928
 SURFACE ELEVATION (FT.): 645.9 LOGGED (FT.): 54.4 LOG TYPE: Drillers Log
 SOURCE: SALINE COUNTY COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.9			UNCONSOLIDATED	25.5	0.0	
620.4	CARBONDALE	CANTON	SHALE	22.1	25.5	"SOAPSTONE", 2.5-IN LS("RK")BND IN LWR PT
598.3	CARBONDALE	ST. DAVID	LIMESTONE	0.8	47.6	"CAP ROCK"
597.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	48.4	FISSILE
596.0	CARBONDALE	SPRINGFIELD	COAL	4.5	49.9	

MAPID: 05700235000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 9 QUARTERS/FOOTAGES: 12' N line, 12' E line of SE NE
 QUADRANGLE: CANTON LONGITUDE: -90.048568 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.520495 DATE COLLECTED: 0 / 0 / 1928
 SURFACE ELEVATION (FT.): 651.9 LOGGED (FT.): 48.5 LOG TYPE: Drillers Log
 SOURCE: SALINE COUNTY COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.9			UNCONSOLIDATED	32.0	0.0	
619.9	CARBONDALE		SHALE	10.0	32.0	"SOAPSTONE"
609.9	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	42.0	FISSILE
607.9	CARBONDALE	SPRINGFIELD	COAL	4.5	44.0	

MAPID: 05700242000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 9 QUARTERS/FOOTAGES: NE

QUADRANGLE: CANTON LONGITUDE: -90.053305 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.520531 DATE COLLECTED: 1 / 31 / 1928

SURFACE ELEVATION (FT.): 663.0 LOGGED (FT.): 63.9 LOG TYPE: Drillers Log

SOURCE: W. G. H. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.0			UNCONSOLIDATED	32.0	0.0	
631.0	CARBONDALE	CANTON	SHALE	24.0	32.0	
607.0	CARBONDALE	ST. DAVID	LIMESTONE	0.8	56.0	"RK"
606.2	CARBONDALE		SHALE	1.0	56.8	
605.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	57.8	FISSILE
604.0	CARBONDALE	SPRINGFIELD	COAL	4.9	59.0	0.42-FT CLY PTG

MAPID: 05700434000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 9 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW

QUADRANGLE: CANTON LONGITUDE: -90.067683 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.516901 DATE COLLECTED: 0 / 0 / 1903

SURFACE ELEVATION (FT.): 662.1 LOGGED (FT.): 73.0 LOG TYPE: Drillers Log

SOURCE: SALINE COUNTY COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.1			UNCONSOLIDATED	32.0	0.0	
630.1	CARBONDALE	CANTON	SHALE	32.0	32.0	"SOAPSTONE"
598.1	CARBONDALE	ST. DAVID	LIMESTONE	1.0	64.0	"CAP ROCK"
597.1	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	65.0	FISSILE
594.1	CARBONDALE	SPRINGFIELD	COAL	5.0	68.0	

MAPID: 05700250000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 10 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE SW

QUADRANGLE: CANTON LONGITUDE: -90.043753 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.516883 DATE COLLECTED: 10 / 31 / 1928

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 28.6 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAEER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0			UNCONSOLIDATED	23.9	0.0	
616.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	23.9	FISSILE
615.6	CARBONDALE	SPRINGFIELD	COAL	2.4	24.4	
613.2	CARBONDALE		UNDERCLAY	1.8	26.8	

MAPID: 05700256000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 4E

SECTION: 10

QUARTERS/FOOTAGES: NW NW NW NE

QUADRANGLE: CANTON

LONGITUDE: -90.038246

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.523715

DATE COLLECTED: 12 / 10 / 1928

SURFACE ELEVATION (FT.): 640.0

LOGGED (FT.): 45.6

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0			UNCONSOLIDATED	31.6	0.0	
608.4	CARBONDALE	CANTON	SHALE	6.4	31.6	
602.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	38.0	
601.6	CARBONDALE		SHALE	0.8	38.4	DARK
600.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	39.3	FISSILE
599.8	CARBONDALE		LIMESTONE CONCRETION	0.5	40.2	
599.3	CARBONDALE	SPRINGFIELD	COAL	4.9	40.7	

MAPID: 05700257000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 4E

SECTION: 10

QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NW

QUADRANGLE: CANTON

LONGITUDE: -90.03889

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.520528

DATE COLLECTED: 12 / 6 / 1928

SURFACE ELEVATION (FT.): 652.0

LOGGED (FT.): 46.7

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
652.0			UNCONSOLIDATED	35.7	0.0	
616.3	CARBONDALE	CANTON	SHALE	2.3	35.7	
614.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	38.0	
613.5	CARBONDALE		SHALE	1.2	38.5	DARK
612.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	39.7	FISSILE
610.7	CARBONDALE	SPRINGFIELD	COAL	4.8	41.3	
605.8	CARBONDALE		UNDERCLAY	0.5	46.2	

MAPID: 05700258000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 10 QUARTERS/FOOTAGES: NE

QUADRANGLE: CANTON LONGITUDE: -90.034071 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.520525 DATE COLLECTED: 12 / 3 / 1928

SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 48.4 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			UNCONSOLIDATED	41.3	0.0	
608.7	CARBONDALE		SHALE	2.2	41.3	
606.6	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	43.4	FISSILE
606.1	CARBONDALE	SPRINGFIELD	COAL	4.5	43.9	

MAPID: 05700260000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 10 QUARTERS/FOOTAGES: NW

QUADRANGLE: CANTON LONGITUDE: -90.043706 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.520528 DATE COLLECTED: 12 / 18 / 1928

SURFACE ELEVATION (FT.): 652.0 LOGGED (FT.): 43.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
652.0			UNCONSOLIDATED	35.0	0.0	
617.0	CARBONDALE	CANTON	SHALE	0.6	35.0	
616.4	CARBONDALE	ST. DAVID	LIMESTONE	0.2	35.6	
616.2	CARBONDALE		SHALE	1.0	35.8	DARK
615.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	36.8	FISSILE
613.9	CARBONDALE	SPRINGFIELD	COAL	4.5	38.1	
609.4	CARBONDALE		UNDERCLAY	0.4	42.6	

MAPID: 05700261000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 10 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NW
 QUADRANGLE: CANTON LONGITUDE: -90.043662 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.52417 DATE COLLECTED: 12 / 14 / 1928
 SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 64.5 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			UNCONSOLIDATED	28.0	0.0	
622.0	CARBONDALE	CANTON	SHALE	27.0	28.0	
595.0	CARBONDALE	ST. DAVID	LIMESTONE	0.7	55.0	
594.3	CARBONDALE		SHALE	1.3	55.7	DARK
593.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	57.0	FISSILE
591.0	CARBONDALE	SPRINGFIELD	COAL	5.5	59.0	

MAPID: 05700264000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 10 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NE
 QUADRANGLE: CANTON LONGITUDE: -90.029251 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.520524 DATE COLLECTED: 12 / 21 / 1928
 SURFACE ELEVATION (FT.): 641.0 LOGGED (FT.): 62.0 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
641.0			UNCONSOLIDATED	47.3	0.0	
593.7	CARBONDALE	CANTON	SHALE	6.6	47.3	
587.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	53.8	
586.7	CARBONDALE		SHALE	1.0	54.3	DARK
585.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	55.3	FISSILE
584.5	CARBONDALE	SPRINGFIELD	COAL	5.3	56.5	
579.2	CARBONDALE		UNDERCLAY	0.3	61.8	

MAPID: 05700265000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 4E

SECTION: 10

QUARTERS/FOOTAGES: NE NE NE NE

QUADRANGLE: CANTON

LONGITUDE: -90.029811

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.523714

DATE COLLECTED: 12 / 19 / 1928

SURFACE ELEVATION (FT.): 625.0

LOGGED (FT.): 53.3

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
625.0			UNCONSOLIDATED	20.0	0.0	
605.0	CARBONDALE	CANTON	SHALE	25.1	20.0	
579.9	CARBONDALE	ST. DAVID	LIMESTONE	0.7	45.1	
579.2	CARBONDALE		SHALE	0.8	45.8	
578.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	46.5	FISSILE
576.7	CARBONDALE	SPRINGFIELD	COAL	4.5	48.3	
572.2	CARBONDALE		UNDERCLAY	0.5	52.8	

MAPID: 05700266000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 4E

SECTION: 10

QUARTERS/FOOTAGES: 0' N line, 0' W line of NE NE

QUADRANGLE: CANTON

LONGITUDE: -90.034023

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.52417

DATE COLLECTED: 12 / 19 / 1928

SURFACE ELEVATION (FT.): 625.0

LOGGED (FT.): 48.3

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
625.0			UNCONSOLIDATED	23.8	0.0	
601.2	CARBONDALE	CANTON	SHALE	17.8	23.8	
583.5	CARBONDALE	ST. DAVID	LIMESTONE	0.5	41.5	
583.0	CARBONDALE		SHALE	0.7	42.0	DARK
582.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	42.7	FISSILE
581.7	CARBONDALE	SPRINGFIELD	COAL	5.0	43.3	

MAPID: 05700267000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 10 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NW SW

QUADRANGLE: CANTON LONGITUDE: -90.046205 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.513238 DATE COLLECTED: 12 / 20 / 1928

SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 17.7 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	12.0	0.0	
608.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	12.0	FISSILE
606.7	CARBONDALE	SPRINGFIELD	COAL	4.3	13.3	

MAPID: 05700269000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 10 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE

QUADRANGLE: CANTON LONGITUDE: -90.029303 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.516882 DATE COLLECTED: 1 / 30 / 1928

SURFACE ELEVATION (FT.): 645.0 LOGGED (FT.): 35.7 LOG TYPE: Drillers Log

SOURCE: W. G. H. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.0			UNCONSOLIDATED	30.8	0.0	
614.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	30.8	FISSILE
613.2	CARBONDALE	SPRINGFIELD	COAL	3.8	31.8	

MAPID: 05700273000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 11 QUARTERS/FOOTAGES: 0' S line, 0' W line

QUADRANGLE: CANTON LONGITUDE: -90.029403 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.509597 DATE COLLECTED: 3 / 25 / 1929

SURFACE ELEVATION (FT.): 641.0 LOGGED (FT.): 74.4 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
641.0			UNCONSOLIDATED	42.0	0.0	
599.0	CARBONDALE		SHALE	6.0	42.0	
593.0	CARBONDALE		SANDSTONE	1.0	48.0	
592.0	CARBONDALE		SHALE	17.0	49.0	SDY UPR 11 FT
575.0	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	66.0	FISSILE
572.0	CARBONDALE	SPRINGFIELD	COAL	5.4	69.0	

MAPID: 05700274000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 11 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SW
 QUADRANGLE: CANTON LONGITUDE: -90.024617 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.509599 DATE COLLECTED: 3 / 25 / 1929
 SURFACE ELEVATION (FT.): 625.0 LOGGED (FT.): 72.5 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
625.0			UNCONSOLIDATED	35.0	0.0	
590.0	CARBONDALE		SANDY SHALE	23.5	35.0	
566.5	CARBONDALE		SANDSTONE	2.5	58.5	
564.0	CARBONDALE		SHALE	5.5	61.0	
558.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	66.5	FISSILE
557.0	CARBONDALE	SPRINGFIELD	COAL	4.5	68.0	

MAPID: 05700275000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 11 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SE
 QUADRANGLE: CANTON LONGITUDE: -90.015037 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.5096 DATE COLLECTED: 3 / 16 / 1929
 SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 49.0 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.0			UNCONSOLIDATED	28.0	0.0	
582.0	CARBONDALE		SHALE	18.5	28.0	
563.5	CARBONDALE	SPRINGFIELD	COAL	2.5	46.5	

MAPID: 05700276000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 11 QUARTERS/FOOTAGES: NE NE SW
 QUADRANGLE: CANTON LONGITUDE: -90.020956 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.515972 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 58.0 LOG TYPE: Drillers Log
 SOURCE: WHITEBREAST FUEL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			UNCONSOLIDATED	43.0	0.0	
607.0	CARBONDALE		SHALE	8.0	43.0	"SOAPSTONE"
599.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	51.0	FISSILE
597.0	CARBONDALE	SPRINGFIELD	COAL	5.0	53.0	

MAPID: 057EC000331Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 11 QUARTERS/FOOTAGES: SW

QUADRANGLE: CANTON LONGITUDE: -90.024572 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.513241 DATE COLLECTED:

SURFACE ELEVATION (FT.): 641.0 LOGGED (FT.): 66.7 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
641.0			UNCONSOLIDATED	40.0	0.0	
601.0	CARBONDALE	CANTON	SHALE	13.6	40.0	
587.4	CARBONDALE	ST. DAVID	LIMESTONE	5.1	53.6	"CLOD" LWR 3.08 FT
582.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.8	58.7	FISSILE
579.5	CARBONDALE	SPRINGFIELD	COAL	5.3	61.5	

MAPID: 057EC000333Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 11 QUARTERS/FOOTAGES: SE

QUADRANGLE: CANTON LONGITUDE: -90.015006 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.513239 DATE COLLECTED:

SURFACE ELEVATION (FT.): 621.0 LOGGED (FT.): 56.2 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.0			UNCONSOLIDATED	45.0	0.0	
576.0	CARBONDALE		SHALE	1.3	45.0	DARK
574.7	CARBONDALE	ST. DAVID	LIMESTONE	1.4	46.3	"RK"
573.3	CARBONDALE		SHALE	3.0	47.7	
570.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	50.7	FISSILE
569.3	CARBONDALE	SPRINGFIELD	COAL	4.5	51.7	

MAPID: 057EC002383Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 11 QUARTERS/FOOTAGES: NE

QUADRANGLE: CANTON LONGITUDE: -90.014948 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.520523 DATE COLLECTED:

SURFACE ELEVATION (FT.): 605.0 LOGGED (FT.): 39.6 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
605.0			UNCONSOLIDATED	30.0	0.0	
575.0	CARBONDALE	CANTON	SHALE	2.0	30.0	
573.0	CARBONDALE	ST. DAVID	LIMESTONE	0.2	32.0	"RK"
572.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	32.2	FISSILE
571.4	CARBONDALE	SPRINGFIELD	COAL	5.0	33.6	
566.4	CARBONDALE		UNDERCLAY	1.0	38.6	

MAPID: 05724669000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 12 QUARTERS/FOOTAGES: NE

QUADRANGLE: BANNER LONGITUDE: -89.99595 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.520637 DATE COLLECTED: 11 / 1 / 1979

SURFACE ELEVATION (FT.): LOGGED (FT.): 55.0 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO.W-22-79 WELL TYPE: Coal Test

COMMENT: PERMIT 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0	
-	PLEISTOCENE		GLACIAL DRIFT	22.0	5.0	WITH LOESS
-	PLEISTOCENE		GLACIAL DRIFT	2.0	27.0	WITH SAND AND GRAVEL
-	PLEISTOCENE		SAND & GRAVEL	7.0	29.0	
-	PLEISTOCENE		GLACIAL DRIFT	4.0	36.0	WITH SAND AND GRAVEL
-	CARBONDALE		GRAY SHALE	6.3	40.0	
-	CARBONDALE		SANDSTONE	0.8	46.3	
-	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	47.0	
-	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	48.0	
-	CARBONDALE	SPRINGFIELD	COAL	4.8	49.0	
-	CARBONDALE		UNDERCLAY	1.2	53.8	

MAPID: 05786601000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 12 QUARTERS/FOOTAGES: 300' N line, 330' W line of SW NW
 QUADRANGLE: CANTON LONGITUDE: -90.008966 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.519705 DATE COLLECTED: 8 / 0 / 1936
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 23.9 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 76 WELL TYPE: Coal Test
 COMMENT: SE CANTON BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
591.0	PLEISTOCENE		CLAY & GRAVEL	7.6	9.0	
583.4	CARBONDALE	ST. DAVID	LIMESTONE	0.7	16.6	CAP ROCK
582.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.1	17.3	
580.7	CARBONDALE	SPRINGFIELD	COAL	4.6	19.3	

MAPID: 05786606000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 12 QUARTERS/FOOTAGES: 5' N line, 280' W line of NW NE
 QUADRANGLE: BANNER LONGITUDE: -89.999627 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.524219 DATE COLLECTED: 11 / 4 / 1945
 SURFACE ELEVATION (FT.): 656.0 LOGGED (FT.): 69.1 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 214 WELL TYPE: Coal Test
 COMMENT: SE CANTON BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
656.0	PLEISTOCENE		UNKNOWN	40.8	0.0	
615.2	CARBONDALE		SHALE	14.0	40.8	WHITE
601.2	CARBONDALE		SHALE	2.5	54.8	BLUE
598.7	CARBONDALE		SHALE	2.5	57.3	WHITE
596.2	CARBONDALE	ST. DAVID	LIMESTONE	1.3	59.8	CAPROCK HARD
594.9	CARBONDALE	TURNER MINE	BLACK SHALE	2.9	61.1	
592.0	CARBONDALE	SPRINGFIELD	COAL	4.6	64.0	GOOD
587.4	CARBONDALE		UNDERCLAY	0.5	68.6	

MAPID: 05786607000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 12 QUARTERS/FOOTAGES: 5' N line, 330' W line of NW NW
 QUADRANGLE: CANTON LONGITUDE: -90.008926 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.524158 DATE COLLECTED: 2 / 7 / 1941
 SURFACE ELEVATION (FT.): 626.0 LOGGED (FT.): 50.3 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 210B WELL TYPE: Coal Test
 COMMENT: CANTON BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
626.0	PLEISTOCENE		UNKNOWN	40.0	0.0	
586.0	CARBONDALE		SHALE	4.0	40.0	
582.0	CARBONDALE		CLAYSTONE	1.0	44.0	
581.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	45.0	
580.1	CARBONDALE	SPRINGFIELD	COAL	4.4	45.9	SOFT

MAPID: 057EC000363Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 12 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE
 QUADRANGLE: BANNER LONGITUDE: -89.991271 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.517058 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 627.0 LOGGED (FT.): 63.3 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
627.0			UNCONSOLIDATED	26.0	0.0	
601.0	CARBONDALE	CANTON	SHALE	29.0	26.0	SDY UPR 1/2
572.0	CARBONDALE	ST. DAVID	LIMESTONE	1.3	55.0	"RK"
570.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	56.3	FISSILE
569.1	CARBONDALE	SPRINGFIELD	COAL	4.7	57.9	
564.4	CARBONDALE		UNDERCLAY	0.8	62.6	

MAPID: 057EC000387Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 12 QUARTERS/FOOTAGES: NE

QUADRANGLE: BANNER LONGITUDE: -89.99595 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.520637 DATE COLLECTED:

SURFACE ELEVATION (FT.): 618.0 LOGGED (FT.): 60.8 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
618.0			UNCONSOLIDATED	29.0	0.0	
589.0	CARBONDALE	CANTON	SANDY SHALE	21.8	29.0	
567.2	CARBONDALE	ST. DAVID	LIMESTONE	1.0	50.8	"RK"
566.2	CARBONDALE		SHALE	2.2	51.8	
564.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	54.0	FISSILE
562.2	CARBONDALE	SPRINGFIELD	COAL	4.5	55.8	
557.7	CARBONDALE		UNDERCLAY	0.5	60.3	

MAPID: 057EC000309Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 12 QUARTERS/FOOTAGES: 0' S line, 0' W line

QUADRANGLE: CANTON LONGITUDE: -90.010247 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.509598 DATE COLLECTED:

SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 47.5 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.0			UNCONSOLIDATED	39.0	0.0	
571.0	CARBONDALE		SHALE	4.0	39.0	
567.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	43.0	FISSILE
565.2	CARBONDALE	SPRINGFIELD	COAL	2.8	44.8	

MAPID: 05700281000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 13 QUARTERS/FOOTAGES: 0' S line, 0' W line

QUADRANGLE: ST. DAVID LONGITUDE: -90.010485 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.495153 DATE COLLECTED: 11 / 26 / 1928

SURFACE ELEVATION (FT.): 614.8 LOGGED (FT.): 44.0 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
614.8			UNCONSOLIDATED	13.0	0.0	
601.8	CARBONDALE	CANTON	SHALE	25.0	13.0	SDY UPR 15 FT
576.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	38.0	FISSILE
575.8	CARBONDALE	SPRINGFIELD	COAL	5.0	39.0	

MAPID: 05700284000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 13 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SW
 QUADRANGLE: ST. DAVID LONGITUDE: -90.010428 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.498762 DATE COLLECTED: 2 / 0 / 1929
 SURFACE ELEVATION (FT.): 580.0 LOGGED (FT.): 21.0 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
580.0			UNCONSOLIDATED	15.0	0.0	
565.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	15.0	FISSILE
564.0	CARBONDALE	SPRINGFIELD	COAL	5.0	16.0	

MAPID: 05700288000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 13 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NE SW
 QUADRANGLE: CANTON LONGITUDE: -90.005703 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.500592 DATE COLLECTED: 2 / 0 / 1929
 SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.0			UNCONSOLIDATED	30.0	0.0	
580.0	CARBONDALE	CANTON	SHALE	21.5	30.0	
558.5	CARBONDALE	SPRINGFIELD	COAL	3.5	51.5	"ROTTEN"

MAPID: 05724670000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 13 QUARTERS/FOOTAGES: SW
 QUADRANGLE: ST. DAVID LONGITUDE: -90.005737 GEOLOGIST: J. MCBETH
 CONFIDENTIAL: N LATITUDE: 40.498779 DATE COLLECTED: 2 / 18 / 1982
 SURFACE ELEVATION (FT.): LOGGED (FT.): 64.0 LOG TYPE: Drillers Log
 SOURCE: FREEMAN UNITED COAL MINING CO HE 15C-82 WELL TYPE: Coal Test
 COMMENT: PERMIT 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		SOIL	2.0	0.0	
-	PLEISTOCENE		SAND & GRAVEL	37.3	2.0	
-	CARBONDALE		GRAY SHALE	13.8	39.3	
-	CARBONDALE	ST. DAVID	LIMESTONE	1.8	53.2	
-	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	55.0	
-	CARBONDALE	TURNER MINE	LIMESTONE	0.3	56.5	
-	CARBONDALE	SPRINGFIELD	COAL	4.7	56.8	
-	CARBONDALE		UNDERCLAY	2.6	61.4	

MAPID: 05724671000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 13 QUARTERS/FOOTAGES: SW

QUADRANGLE: ST. DAVID LONGITUDE: -90.005737 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.498779 DATE COLLECTED: 2 / 22 / 1982

SURFACE ELEVATION (FT.): LOGGED (FT.): 87.0 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO.HE22C-821 WELL TYPE: Coal Test

COMMENT: PERMIT 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		UNCONSOLIDATED	1.0	0.0	
-	PLEISTOCENE		SAND & GRAVEL	2.7	1.0	GLACIAL TILL
-	CARBONDALE	VERMILIONVILLE	SANDSTONE	39.8	3.7	
-	CARBONDALE	VERMILIONVILLE	SANDSTONE	8.5	43.5	WITH SHALE
-	CARBONDALE	CANTON	GRAY SHALE	23.3	52.0	
-	CARBONDALE	TURNER MINE	BLACK SHALE	2.1	75.3	
-	CARBONDALE	SPRINGFIELD	COAL	5.0	77.4	
-	CARBONDALE		UNDERCLAY	4.6	82.4	

MAPID: 057EC000212Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 13 QUARTERS/FOOTAGES: NW SE SE

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.995209 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.497899 DATE COLLECTED:

SURFACE ELEVATION (FT.): 619.0 LOGGED (FT.): 68.8 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS; 212E

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
619.0			UNCONSOLIDATED	43.0	0.0	
576.0	CARBONDALE	CANTON	SHALE	18.6	43.0	
557.4	CARBONDALE	ST. DAVID	LIMESTONE	0.3	61.6	"RK"
557.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	61.8	FISSILE
555.7	CARBONDALE	SPRINGFIELD	COAL	5.5	63.3	

MAPID: 057EC000063Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.00097 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.502433 DATE COLLECTED:

SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 57.3 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS; R-63

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	23.0	0.0	
597.0	CARBONDALE		SHALE	12.0	23.0	
585.0	CARBONDALE		SANDSTONE	1.0	35.0	
584.0	CARBONDALE		SHALE	17.0	36.0	
567.0	CARBONDALE		SANDSTONE	1.1	53.0	
565.9	CARBONDALE	SPRINGFIELD	COAL	3.3	54.1	

MAPID: 05700290000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 14 QUARTERS/FOOTAGES: 0' S line, 0' W line

QUADRANGLE: ST. DAVID LONGITUDE: -90.029784 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.495124 DATE COLLECTED: 3 / 25 / 1929

SURFACE ELEVATION (FT.): 626.0 LOGGED (FT.): 63.0 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
626.0			UNCONSOLIDATED	26.0	0.0	
600.0	CARBONDALE	BIG CREEK	SHALE	5.0	26.0	
595.0	CARBONDALE	VERMILIONVILLE	SANDSTONE	24.0	31.0	
571.0	CARBONDALE		SHALE	2.0	55.0	
569.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	57.0	FISSILE
568.0	CARBONDALE	SPRINGFIELD	COAL	5.0	58.0	

MAPID: 05700292000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 14 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SW
 QUADRANGLE: ST. DAVID LONGITUDE: -90.024959 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.495131 DATE COLLECTED: 3 / 25 / 1929
 SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 69.8 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	18.0	0.0	
602.0	CARBONDALE	CANTON	SHALE	44.0	18.0	SDY TOP 17 FT
558.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	62.0	"ROCK"
557.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	63.0	FISSILE
556.0	CARBONDALE	SPRINGFIELD	COAL	5.8	64.0	

MAPID: 05700297000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 14 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SW
 QUADRANGLE: ST. DAVID LONGITUDE: -90.029689 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.498742 DATE COLLECTED: 3 / 25 / 1929
 SURFACE ELEVATION (FT.): 625.0 LOGGED (FT.): 75.3 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
625.0			UNCONSOLIDATED	32.0	0.0	
593.0	CARBONDALE	VERMILIONVILLE	SANDSTONE	34.0	32.0	
559.0	CARBONDALE		SHALE	3.0	66.0	
556.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	69.0	FISSILE
555.0	CARBONDALE	SPRINGFIELD	COAL	5.3	70.0	

MAPID: 05700299000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 14 QUARTERS/FOOTAGES: SW

QUADRANGLE: ST. DAVID LONGITUDE: -90.024874 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.498746 DATE COLLECTED: 3 / 25 / 1929

SURFACE ELEVATION (FT.): 625.0 LOGGED (FT.): 53.2 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
625.0			UNCONSOLIDATED	19.0	0.0	
606.0	CARBONDALE	CANTON	SHALE	25.0	19.0	
581.0	CARBONDALE	ST. DAVID	LIMESTONE	0.7	44.0	"ROCK"
580.3	CARBONDALE		SHALE	2.0	44.7	
578.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	46.7	FISSILE
577.0	CARBONDALE	SPRINGFIELD	COAL	5.2	48.0	

MAPID: 05700301000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 14 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SE

QUADRANGLE: ST. DAVID LONGITUDE: -90.02006 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.498754 DATE COLLECTED: 3 / 0 / 1929

SURFACE ELEVATION (FT.): 605.0 LOGGED (FT.): 37.3 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
605.0			UNCONSOLIDATED	22.0	0.0	
583.0	CARBONDALE		SHALE	9.0	22.0	
574.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	31.0	FISSILE
572.5	CARBONDALE	SPRINGFIELD	COAL	4.8	32.5	

MAPID: 05700304000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 14 QUARTERS/FOOTAGES: SE

QUADRANGLE: ST. DAVID LONGITUDE: -90.015242 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.498758 DATE COLLECTED: 3 / 18 / 1929

SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 22.3 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0			UNCONSOLIDATED	16.5	0.0	
583.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	16.5	FISSILE
582.0	CARBONDALE	SPRINGFIELD	COAL	4.3	18.0	

MAPID: 05700305000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 14 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW
 QUADRANGLE: CANTON LONGITUDE: -90.029593 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.502359 DATE COLLECTED: 3 / 18 / 1929
 SURFACE ELEVATION (FT.): 630.0 LOGGED (FT.): 55.3 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.0			UNCONSOLIDATED	46.0	0.0	
584.0	CARBONDALE		SHALE	4.0	46.0	
580.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	50.0	FISSILE
579.0	CARBONDALE	SPRINGFIELD	COAL	4.3	51.0	

MAPID: 05700307000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 14 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NW
 QUADRANGLE: CANTON LONGITUDE: -90.02479 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.502364 DATE COLLECTED: 3 / 0 / 1929
 SURFACE ELEVATION (FT.): 626.0 LOGGED (FT.): 53.3 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
626.0			UNCONSOLIDATED	27.0	0.0	
599.0	CARBONDALE	CANTON	SANDY SHALE	10.0	27.0	
589.0	CARBONDALE	ST. DAVID	LIMESTONE	4.0	37.0	"ROCK"
585.0	CARBONDALE		SHALE	5.0	41.0	
580.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	46.0	FISSILE
578.0	CARBONDALE	SPRINGFIELD	COAL	5.3	48.0	

MAPID: 05700315000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 14 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NE
 QUADRANGLE: CANTON LONGITUDE: -90.015175 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.50237 DATE COLLECTED: 3 / 0 / 1929
 SURFACE ELEVATION (FT.): 605.0 LOGGED (FT.): 15.8 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
605.0			UNCONSOLIDATED	14.5	0.0	
590.5	CARBONDALE	SPRINGFIELD	COAL	1.3	14.5	PROB ERODED

MAPID: 05700319000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 14 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW
 QUADRANGLE: CANTON LONGITUDE: -90.029498 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.50598 DATE COLLECTED: 3 / 18 / 1929
 SURFACE ELEVATION (FT.): 628.0 LOGGED (FT.): 53.2 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
628.0			UNCONSOLIDATED	36.0	0.0	
592.0	CARBONDALE	ST. DAVID	LIMESTONE	4.0	36.0	"ROCK"
588.0	CARBONDALE		SHALE	6.0	40.0	
582.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	46.0	FISSILE
580.0	CARBONDALE	SPRINGFIELD	COAL	5.2	48.0	

MAPID: 05700321000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 14 QUARTERS/FOOTAGES: NW
 QUADRANGLE: CANTON LONGITUDE: -90.024701 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.505982 DATE COLLECTED: 3 / 19 / 1929
 SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 51.5 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	34.0	0.0	
586.0	CARBONDALE	CANTON	SHALE	9.0	34.0	
577.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	43.0	"ROCK"
576.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	44.0	FISSILE
574.0	CARBONDALE	SPRINGFIELD	COAL	5.5	46.0	

MAPID: 05700325000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 14 QUARTERS/FOOTAGES: NE
 QUADRANGLE: CANTON LONGITUDE: -90.015108 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.505985 DATE COLLECTED: 3 / 0 / 1929
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 17.0 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0			UNCONSOLIDATED	13.5	0.0	
586.5	CARBONDALE	SPRINGFIELD	COAL	3.5	13.5	PROB ERODED

MAPID: 057EC000257Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.019982 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.502368 DATE COLLECTED:

SURFACE ELEVATION (FT.): 622.0 LOGGED (FT.): 58.0 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.0			UNCONSOLIDATED	28.5	0.0	
593.5	CARBONDALE	SPRINGFIELD	COAL	0.8	28.5	PROB ERODED
592.7	CARBONDALE		UNDERCLAY	5.0	29.3	
587.7	CARBONDALE		LIMESTONE	0.7	34.3	"RK"
587.0	CARBONDALE		SHALE	23.0	35.0	

MAPID: 05700329000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 15 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW NW

QUADRANGLE: CANTON LONGITUDE: -90.048714 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.506003 DATE COLLECTED: 11 / 21 / 1928

SURFACE ELEVATION (FT.): 632.0 LOGGED (FT.): 32.3 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
632.0			UNCONSOLIDATED	23.4	0.0	
608.6	CARBONDALE	ST. DAVID	LIMESTONE	0.3	23.4	
608.2	CARBONDALE	TURNER MINE	BLACK SHALE	2.9	23.8	FISSILE
605.3	CARBONDALE	SPRINGFIELD	COAL	4.9	26.7	
600.4	CARBONDALE		UNDERCLAY	0.8	31.6	

MAPID: 05700330000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 15 QUARTERS/FOOTAGES: SW

QUADRANGLE: ST. DAVID LONGITUDE: -90.044045 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.498801 DATE COLLECTED: 11 / 24 / 1928

SURFACE ELEVATION (FT.): 635.0 LOGGED (FT.): 52.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.0			UNCONSOLIDATED	33.0	0.0	
602.0	CARBONDALE	CANTON	SHALE	10.6	33.0	
591.4	CARBONDALE	ST. DAVID	LIMESTONE	0.3	43.6	
591.2	CARBONDALE		SHALE	1.8	43.8	DARK
589.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	45.7	FISSILE
588.3	CARBONDALE	SPRINGFIELD	COAL	4.8	46.7	
583.5	CARBONDALE		UNDERCLAY	0.6	51.5	

MAPID: 05700332000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 15 QUARTERS/FOOTAGES: 0' S line, 0' W line

QUADRANGLE: ST. DAVID LONGITUDE: -90.048889 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.495231 DATE COLLECTED: 11 / 27 / 1928

SURFACE ELEVATION (FT.): 622.0 LOGGED (FT.): 40.2 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.0			UNCONSOLIDATED	28.0	0.0	
594.0	CARBONDALE	CANTON	SHALE	4.0	28.0	
590.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	32.0	
589.5	CARBONDALE		SHALE	1.3	32.5	
588.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	33.8	FISSILE
586.9	CARBONDALE	SPRINGFIELD	COAL	4.8	35.1	
582.1	CARBONDALE		UNDERCLAY	0.3	39.9	

MAPID: 05700333000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 15 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NW
 QUADRANGLE: CANTON LONGITUDE: -90.043841 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.509596 DATE COLLECTED: 2 / 4 / 1928
 SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 34.9 LOG TYPE: Drillers Log
 SOURCE: W. G. H. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	25.0	0.0	
595.0	CARBONDALE		SHALE	4.0	25.0	
591.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	29.0	FISSILE
589.7	CARBONDALE	SPRINGFIELD	COAL	4.7	30.3	

MAPID: 05700334000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 15 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NE
 QUADRANGLE: CANTON LONGITUDE: -90.039106 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.505992 DATE COLLECTED: 2 / 7 / 1928
 SURFACE ELEVATION (FT.): 622.0 LOGGED (FT.): 28.6 LOG TYPE: Drillers Log
 SOURCE: W. G. H. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.0			UNCONSOLIDATED	26.0	0.0	
596.0	CARBONDALE	SPRINGFIELD	COAL	2.6	26.0	PROB ERODED

MAPID: 05700335000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 15 QUARTERS/FOOTAGES: NW
 QUADRANGLE: CANTON LONGITUDE: -90.04391 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.505998 DATE COLLECTED: 2 / 7 / 1928
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 19.0 LOG TYPE: Drillers Log
 SOURCE: W. G. H. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0			UNCONSOLIDATED	12.0	0.0	
588.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	12.0	FISSILE
585.7	CARBONDALE	SPRINGFIELD	COAL	4.7	14.3	

MAPID: 05700336000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 15 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE SW
 QUADRANGLE: CANTON LONGITUDE: -90.04398 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.502399 DATE COLLECTED: 2 / 5 / 1928
 SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 37.6 LOG TYPE: Drillers Log
 SOURCE: W. G. H. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	22.0	0.0	
598.0	CARBONDALE	CANTON	SHALE	7.6	22.0	
590.4	CARBONDALE	ST. DAVID	LIMESTONE	0.8	29.6	
589.7	CARBONDALE		SHALE	1.5	30.3	
588.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	31.8	FISSILE
587.0	CARBONDALE	SPRINGFIELD	COAL	4.6	33.0	

MAPID: 05701416000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 15 QUARTERS/FOOTAGES: 260' N line, 300' E line of SW
 QUADRANGLE: CANTON LONGITUDE: -90.040283 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.501671 DATE COLLECTED: 0 / 0 / 1905
 SURFACE ELEVATION (FT.): 620.5 LOGGED (FT.): 158.0 LOG TYPE: Drillers Log
 SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.5			UNCONSOLIDATED	28.0	0.0	
592.5	CARBONDALE	CANTON	SHALE	5.3	28.0	"SOAPSTONE"
587.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	33.3	
586.7	CARBONDALE		SHALE	0.6	33.8	"SOAPSTONE"
586.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	34.3	FISSILE
585.1	CARBONDALE	SPRINGFIELD	COAL	4.8	35.4	
580.3	CARBONDALE		UNDERCLAY	1.8	40.2	
578.5	CARBONDALE		SHALE	16.0	42.0	"SOAPSTONE"
562.5	CARBONDALE		SANDSTONE	8.0	58.0	
554.5	CARBONDALE		SANDY SHALE	40.0	66.0	
514.5	CARBONDALE		SANDSTONE	27.0	106.0	
487.5	CARBONDALE		SHALE	1.7	133.0	DARK
485.8	CARBONDALE		LIMESTONE	0.6	134.7	
485.3	CARBONDALE		SHALE	6.1	135.2	
479.2	CARBONDALE	OAK GROVE	LIMESTONE	1.5	141.3	"CAP ROCK"
477.7	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.2	142.8	FISSILE
474.5	CARBONDALE	FRANCIS CREEK	SHALE	7.2	146.0	"SOAPSTONE"
467.3	CARBONDALE	COLCHESTER	COAL	2.7	153.2	BASE OF CARBONDALE
464.7	SPOON		UNDERCLAY	1.3	155.8	
463.3	SPOON		SANDSTONE	0.8	157.2	

MAPID: 05701416000C VERSION: 2

PROJECT: NCRDS87

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 15 QUARTERS/FOOTAGES: 260' N line, 300' E line of SW

QUADRANGLE: CANTON LONGITUDE: -90.040283 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 40.501671 DATE COLLECTED: 0 / 0 / 1905

SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 158.0 LOG TYPE: Other Core Study

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	28.0	0.0	
592.0	CARBONDALE		UNCLASSIFIED	5.3	28.0	
586.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	33.3	
586.2	CARBONDALE		UNCLASSIFIED	0.6	33.8	
585.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	34.3	
584.6	CARBONDALE	SPRINGFIELD	COAL	4.8	35.4	
579.8	CARBONDALE		UNDERCLAY	1.8	40.2	
578.0	CARBONDALE		UNCLASSIFIED	16.0	42.0	
562.0	CARBONDALE		SANDSTONE	8.0	58.0	
554.0	CARBONDALE		UNCLASSIFIED	40.0	66.0	
514.0	CARBONDALE		SANDSTONE	27.0	106.0	
487.0	CARBONDALE		DARK SHALE	1.7	133.0	
485.3	CARBONDALE		LIMESTONE	0.6	134.7	
484.7	CARBONDALE		GRAY SHALE	2.6	135.3	
482.2	CARBONDALE		DARK SHALE	3.5	137.8	
478.7	CARBONDALE		LIMESTONE	1.5	141.3	"CAP ROCK"
477.2	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.2	142.8	"SLATE STREAKS"
474.0	CARBONDALE	FRANCIS CREEK	UNCLASSIFIED	7.2	146.0	UNCERTAIN CORRELATION
466.8	CARBONDALE	COLCHESTER	COAL	2.7	153.2	
464.2			UNDERCLAY	1.3	155.8	
462.8			SANDSTONE	0.8	157.2	
462.0			UNCLASSIFIED	0.0	158.0	TD

MAPID: 05700338000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 16 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE SE SW

QUADRANGLE: ST. DAVID LONGITUDE: -90.058441 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.496996 DATE COLLECTED: 0 / 0 / 1905

SURFACE ELEVATION (FT.): 573.4 LOGGED (FT.): 197.0 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
573.4			UNCONSOLIDATED	26.0	0.0	
547.4	CARBONDALE		BLACK SHALE	1.0	26.0	FISSILE
546.4	CARBONDALE		SANDSTONE	9.0	27.0	
537.4	CARBONDALE		SHALE	48.0	36.0	"SOAPSTONE"
489.4	CARBONDALE		BLACK SHALE	0.5	84.0	FISSILE
488.9	CARBONDALE		SHALE	6.0	84.5	"SOAPSTONE"
482.9	CARBONDALE		LIMESTONE	3.0	90.5	
479.9	CARBONDALE	COLCHESTER	COAL	6.0	93.5	BASE OF CARBONDALE
473.9	SPOON		UNDERCLAY	0.5	99.5	
473.4	SPOON		SANDSTONE	39.0	100.0	
434.4	SPOON		BLACK SHALE	5.0	139.0	FISSILE
429.4	SPOON		SANDSTONE	12.5	144.0	
416.9	SPOON	ROCK ISLAND	COAL	4.0	156.5	BASE OF SPOON
412.9	ABBOTT	BERNADOTTE	SANDSTONE	25.0	160.5	
387.9	ABBOTT	POPE CREEK	COAL	1.5	185.5	
386.4	ABBOTT		SANDSTONE	10.0	187.0	

MAPID: 05700339000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 16 QUARTERS/FOOTAGES: 5' N line, 115' E line of SW SE

QUADRANGLE: ST. DAVID LONGITUDE: -90.054035 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.498794 DATE COLLECTED: 0 / 0 / 1905

SURFACE ELEVATION (FT.): 561.6 LOGGED (FT.): 97.8 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
561.6			CAVITY	2.0	0.0	
559.6	CARBONDALE		UNCONSOLIDATED	22.0	2.0	
537.6	CARBONDALE		SHALE	64.5	24.0	SDY UPR 48 FT
473.1	CARBONDALE	OAK GROVE	LIMESTONE	4.3	88.5	"CLOD" LWR 1.25 FT
468.8	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.0	92.8	FISSILE
467.8	CARBONDALE	COLCHESTER	COAL	4.0	93.8	BASE OF CARBONDALE

MAPID: 05700344000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 16 QUARTERS/FOOTAGES: 60' N line, 11' E line of SW NE
 QUADRANGLE: CANTON LONGITUDE: -90.053539 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.50584 DATE COLLECTED: 0 / 0 / 1928
 SURFACE ELEVATION (FT.): 622.5 LOGGED (FT.): 31.0 LOG TYPE: Drillers Log
 SOURCE: SALINE COUNTY COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.5			UNCONSOLIDATED	24.0	0.0	
598.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	24.0	FISSILE
596.5	CARBONDALE	SPRINGFIELD	COAL	5.0	26.0	

MAPID: 05700345000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 16 QUARTERS/FOOTAGES: NW SW
 QUADRANGLE: CANTON LONGITUDE: -90.065558 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.500588 DATE COLLECTED: 0 / 0 / 1903
 SURFACE ELEVATION (FT.): 648.8 LOGGED (FT.): 59.4 LOG TYPE: Drillers Log
 SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.8			UNCONSOLIDATED	50.8	0.0	
598.0	CARBONDALE	ST. DAVID	LIMESTONE	0.8	50.8	"CAP ROCK"
597.2	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	51.6	FISSILE
594.7	CARBONDALE	SPRINGFIELD	COAL	5.3	54.1	

MAPID: 05700348000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 16 QUARTERS/FOOTAGES: 75' S line, 180' W line of NW SE
 QUADRANGLE: ST. DAVID LONGITUDE: -90.057756 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.499005 DATE COLLECTED: 0 / 0 / 1903
 SURFACE ELEVATION (FT.): 621.9 LOGGED (FT.): 49.2 LOG TYPE: Drillers Log
 SOURCE: SALINE COUNTY COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.9			UNCONSOLIDATED	25.0	0.0	
596.9	CARBONDALE	CANTON	SHALE	16.4	25.0	"SOAPSTONE"
580.5	CARBONDALE	ST. DAVID	LIMESTONE	1.2	41.4	"CAP RK"
579.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	42.6	FISSILE
577.9	CARBONDALE	SPRINGFIELD	COAL	5.2	44.0	

MAPID: 05700349000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 16 QUARTERS/FOOTAGES: 280' N line, 80' E line of SW
 QUADRANGLE: CANTON LONGITUDE: -90.058648 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.501631 DATE COLLECTED: 0 / 0 / 1903
 SURFACE ELEVATION (FT.): 616.6 LOGGED (FT.): 38.3 LOG TYPE: Drillers Log
 SOURCE: SALINE COUNTY COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
616.6			UNCONSOLIDATED	28.4	0.0	
588.2	CARBONDALE	ST. DAVID	LIMESTONE	1.4	28.4	"CAP RK"
586.8	CARBONDALE	TURNER MINE	BLACK SHALE	3.4	29.8	FISSILE
583.3	CARBONDALE	SPRINGFIELD	COAL	5.1	33.3	

MAPID: 05700350000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 16 QUARTERS/FOOTAGES: 35' S line, 445' W line of NE NW
 QUADRANGLE: CANTON LONGITUDE: -90.06145 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.506104 DATE COLLECTED: 0 / 0 / 1903
 SURFACE ELEVATION (FT.): 656.7 LOGGED (FT.): 73.9 LOG TYPE: Drillers Log
 SOURCE: SALINE COUNTY COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
656.7			UNCONSOLIDATED	65.9	0.0	
590.8	CARBONDALE	ST. DAVID	LIMESTONE	0.8	65.9	"CAP ROCK"
589.9	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	66.8	FISSILE
587.6	CARBONDALE	SPRINGFIELD	COAL	4.8	69.1	

MAPID: 05700355000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 16 QUARTERS/FOOTAGES: 0' N line, 0' E line
 QUADRANGLE: CANTON LONGITUDE: -90.048652 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.509596 DATE COLLECTED: 2 / 3 / 1928
 SURFACE ELEVATION (FT.): 642.0 LOGGED (FT.): 32.3 LOG TYPE: Drillers Log
 SOURCE: W. G. H. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
642.0			UNCONSOLIDATED	19.0	0.0	
623.0	CARBONDALE	CANTON	SHALE	5.5	19.0	
617.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	24.5	"RK"
617.1	CARBONDALE		SHALE	1.4	24.9	
615.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	26.3	FISSILE
614.4	CARBONDALE	SPRINGFIELD	COAL	4.7	27.6	

MAPID: 05700356000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 4E **SECTION:** 16 **QUARTERS/FOOTAGES:** 0' N line, 0' W line of NE NE
QUADRANGLE: CANTON **LONGITUDE:** -90.053431 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.509604 **DATE COLLECTED:** 2 / 3 / 1928
SURFACE ELEVATION (FT.): 640.0 **LOGGED (FT.):** 60.1 **LOG TYPE:** Drillers Log
SOURCE: W. G. H. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0			UNCONSOLIDATED	32.0	0.0	
608.0	CARBONDALE	CANTON	SHALE	19.0	32.0	
589.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	51.0	"RK"
588.0	CARBONDALE		SHALE	2.3	52.0	
585.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	54.3	FISSILE
584.6	CARBONDALE	SPRINGFIELD	COAL	4.7	55.4	

MAPID: 05700359000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 4E **SECTION:** 17 **QUARTERS/FOOTAGES:** 600' S line, 0' W line of SE
QUADRANGLE: ST. DAVID **LONGITUDE:** -90.077479 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.49677 **DATE COLLECTED:** 0 / 0 / 1903
SURFACE ELEVATION (FT.): 648.0 **LOGGED (FT.):** 70.5 **LOG TYPE:** Drillers Log
SOURCE: BIG CREEK COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.0			UNCONSOLIDATED	61.1	0.0	
586.9	CARBONDALE	ST. DAVID	LIMESTONE	1.5	61.1	"RK"
585.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.8	62.6	FISSILE
582.6	CARBONDALE	SPRINGFIELD	COAL	5.1	65.4	

MAPID: 05700360000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 4E **SECTION:** 17 **QUARTERS/FOOTAGES:** 990' N line, 56' E line of SW
QUADRANGLE: ST. DAVID **LONGITUDE:** -90.077641 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.499664 **DATE COLLECTED:** 0 / 0 / 1903
SURFACE ELEVATION (FT.): 641.9 **LOGGED (FT.):** 52.6 **LOG TYPE:** Drillers Log
SOURCE: BIG CREEK COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
641.9			UNCONSOLIDATED	43.7	0.0	
598.2	CARBONDALE	ST. DAVID	LIMESTONE	1.2	43.7	"CAP RK"
597.1	CARBONDALE	TURNER MINE	BLACK SHALE	2.8	44.8	FISSILE
594.3	CARBONDALE	SPRINGFIELD	COAL	5.0	47.6	

MAPID: 05700361000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 17 QUARTERS/FOOTAGES: 30' N line, 70' W line of SE
 QUADRANGLE: CANTON LONGITUDE: -90.077146 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.502312 DATE COLLECTED: 0 / 0 / 1903
 SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 50.9 LOG TYPE: Drillers Log
 SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0			UNCONSOLIDATED	42.5	0.0	
597.5	CARBONDALE	ST. DAVID	LIMESTONE	0.8	42.5	"CAP RK"
596.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.8	43.3	FISSILE
593.9	CARBONDALE	SPRINGFIELD	COAL	4.8	46.1	

MAPID: 05700362000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 17 QUARTERS/FOOTAGES: NE
 QUADRANGLE: CANTON LONGITUDE: -90.072593 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.506023 DATE COLLECTED: 0 / 0 / 1903
 SURFACE ELEVATION (FT.): 651.9 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log
 SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.9			UNCONSOLIDATED	57.2	0.0	
594.7	CARBONDALE	ST. DAVID	LIMESTONE	0.8	57.2	"CAP RK"
593.9	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	58.0	FISSILE
591.9	CARBONDALE	SPRINGFIELD	COAL	5.0	60.0	

MAPID: 05700363000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 17 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE
 QUADRANGLE: CANTON LONGITUDE: -90.07729 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.509676 DATE COLLECTED: 0 / 0 / 1903
 SURFACE ELEVATION (FT.): 658.8 LOGGED (FT.): 74.2 LOG TYPE: Drillers Log
 SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
658.8			UNCONSOLIDATED	30.0	0.0	
628.8	CARBONDALE	CANTON	SHALE	36.0	30.0	"SOAPSTONE"
592.8	CARBONDALE	ST. DAVID	LIMESTONE	0.8	66.0	"CAP RK"
592.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	66.8	FISSILE
589.5	CARBONDALE	SPRINGFIELD	COAL	4.8	69.3	

MAPID: 05700364000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 17 QUARTERS/FOOTAGES: 250' N line, 50' W line of SW NW

QUADRANGLE: CANTON LONGITUDE: -90.086671 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.50537 DATE COLLECTED: 0 / 0 / 1903

SURFACE ELEVATION (FT.): 635.5 LOGGED (FT.): 53.0 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.5			UNCONSOLIDATED	23.0	0.0	
612.5	CARBONDALE	CANTON	SHALE	22.5	23.0	"SOAPSTONE"
590.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	45.5	"CAP RK"
589.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	46.0	FISSILE
587.2	CARBONDALE	SPRINGFIELD	COAL	4.8	48.3	

MAPID: 05700366000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 17 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SE SW

QUADRANGLE: ST. DAVID LONGITUDE: -90.082204 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.496918 DATE COLLECTED: 11 / 20 / 1928

SURFACE ELEVATION (FT.): 642.0 LOGGED (FT.): 56.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
642.0			UNCONSOLIDATED	48.4	0.0	
593.6	CARBONDALE	ST. DAVID	LIMESTONE	0.8	48.4	"RK"
592.8	CARBONDALE		SHALE	1.1	49.2	
591.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	50.3	FISSILE
590.1	CARBONDALE	SPRINGFIELD	COAL	4.1	51.9	
586.0	CARBONDALE		UNDERCLAY	0.8	56.0	

MAPID: 05700368000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 17 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE SE

QUADRANGLE: ST. DAVID LONGITUDE: -90.067987 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.498775 DATE COLLECTED: 11 / 26 / 1928

SURFACE ELEVATION (FT.): 642.0 LOGGED (FT.): 55.3 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
642.0			UNCONSOLIDATED	25.0	0.0	
617.0	CARBONDALE	CANTON	SHALE	21.1	25.0	
595.9	CARBONDALE	ST. DAVID	LIMESTONE	1.2	46.1	
594.7	CARBONDALE		SHALE	0.8	47.3	DARK
593.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	48.1	FISSILE
592.2	CARBONDALE	SPRINGFIELD	COAL	5.0	49.8	
587.2	CARBONDALE		UNDERCLAY	0.5	54.8	

MAPID: 05700371000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 17 QUARTERS/FOOTAGES: SW SW SW SW

QUADRANGLE: ST. DAVID LONGITUDE: -90.086353 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.49553 DATE COLLECTED: 12 / 14 / 1927

SURFACE ELEVATION (FT.): 635.6 LOGGED (FT.): 40.0 LOG TYPE: Drillers Log

SOURCE: W. G. H. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.6			UNCONSOLIDATED	33.0	0.0	
602.6	CARBONDALE	SPRINGFIELD	COAL	4.0	33.0	PROB ERODED
598.6	CARBONDALE		SHALE	3.0	37.0	

MAPID: 05700404000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 17 QUARTERS/FOOTAGES: 40' N line, 20' E line of SE

QUADRANGLE: CANTON LONGITUDE: -90.06799 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.502282 DATE COLLECTED:

SURFACE ELEVATION (FT.): 654.4 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log

SOURCE: SALINE COUNTY COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.4			UNCONSOLIDATED	25.0	0.0	
629.4	CARBONDALE	CANTON	SHALE	40.4	25.0	"SOAPSTONE"
589.0	CARBONDALE	ST. DAVID	LIMESTONE	0.1	65.4	"CAP RK"
588.9	CARBONDALE	TURNER MINE	BLACK SHALE	3.5	65.5	FISSILE
585.4	CARBONDALE	SPRINGFIELD	COAL	5.0	69.0	

MAPID: 05700374000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 4E **SECTION:** 18 **QUARTERS/FOOTAGES:** 0' N line, 0' E line of SE
QUADRANGLE: CANTON **LONGITUDE:** -90.086877 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.502397 **DATE COLLECTED:** 0 / 0 / 1903
SURFACE ELEVATION (FT.): 655.8 **LOGGED (FT.):** 55.0 **LOG TYPE:** Drillers Log
SOURCE: BIG CREEK COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.8			UNCONSOLIDATED	32.0	0.0	
623.8	CARBONDALE	CANTON	SHALE	13.0	32.0	"SOAPSTONE"
610.8	CARBONDALE	ST. DAVID	LIMESTONE	1.6	45.0	"CAP RK"
609.2	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	46.6	FISSILE
606.2	CARBONDALE	SPRINGFIELD	COAL	5.4	49.6	

MAPID: 05700376000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 4E **SECTION:** 18 **QUARTERS/FOOTAGES:** 30' N line, 793' W line of NE
QUADRANGLE: CANTON **LONGITUDE:** -90.092849 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.509682 **DATE COLLECTED:** 0 / 0 / 1903
SURFACE ELEVATION (FT.): 670.1 **LOGGED (FT.):** 64.5 **LOG TYPE:** Drillers Log
SOURCE: BIG CREEK COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.1			UNCONSOLIDATED	56.0	0.0	
614.1	CARBONDALE	ST. DAVID	LIMESTONE	0.5	56.0	"CAP RK"
613.6	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	56.5	FISSILE
610.6	CARBONDALE	SPRINGFIELD	COAL	5.0	59.5	

MAPID: 05700377000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 6N 4E **SECTION:** 18 **QUARTERS/FOOTAGES:** 0' N line, 0' W line of SW NE
QUADRANGLE: CANTON **LONGITUDE:** -90.096386 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.506122 **DATE COLLECTED:** 0 / 0 / 1903
SURFACE ELEVATION (FT.): 642.3 **LOGGED (FT.):** 48.8 **LOG TYPE:** Drillers Log
SOURCE: BIG CREEK COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
642.3			UNCONSOLIDATED	41.7	0.0	
600.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.2	41.7	FISSILE
598.5	CARBONDALE	SPRINGFIELD	COAL	5.0	43.8	

MAPID: 05700378000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 18 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SW
 QUADRANGLE: ST. DAVID LONGITUDE: -90.100315 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.49514 DATE COLLECTED: 12 / 0 / 1928
 SURFACE ELEVATION (FT.): 642.0 LOGGED (FT.): 69.7 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
642.0			UNCONSOLIDATED	28.3	0.0	
613.7	CARBONDALE	CANTON	SHALE	29.9	28.3	
583.7	CARBONDALE	ST. DAVID	LIMESTONE	2.1	58.3	
581.7	CARBONDALE		SHALE	1.8	60.3	
579.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	62.2	FISSILE
577.8	CARBONDALE	SPRINGFIELD	COAL	5.1	64.2	
572.8	CARBONDALE		UNDERCLAY	0.5	69.2	

MAPID: 05700384000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 18 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW NE SE
 QUADRANGLE: ST. DAVID LONGITUDE: -90.089297 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.498746 DATE COLLECTED: 1 / 27 / 1928
 SURFACE ELEVATION (FT.): 635.3 LOGGED (FT.): 48.3 LOG TYPE: Drillers Log
 SOURCE: W. G. H. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.3			UNCONSOLIDATED	30.0	0.0	
605.3	CARBONDALE		SHALE	12.8	30.0	
592.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	42.8	FISSILE
591.5	CARBONDALE	SPRINGFIELD	COAL	4.5	43.8	

MAPID: 05700386000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 18 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE SW

QUADRANGLE: ST. DAVID LONGITUDE: -90.096453 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.498788 DATE COLLECTED: 12 / 30 / 1927

SURFACE ELEVATION (FT.): 623.0 LOGGED (FT.): 73.0 LOG TYPE: Drillers Log

SOURCE: W. G. H. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
623.0			UNCONSOLIDATED	22.0	0.0	
601.0	CARBONDALE	CANTON	SHALE	9.0	22.0	
592.0	CARBONDALE	ST. DAVID	LIMESTONE	1.3	31.0	"RK"
590.7	CARBONDALE		SHALE	0.7	32.3	
590.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	32.9	FISSILE
588.6	CARBONDALE		ROCK	0.8	34.4	
587.8	CARBONDALE	SPRINGFIELD	COAL	4.8	35.2	
583.0	CARBONDALE		UNDERCLAY	1.0	40.0	
582.0	CARBONDALE		SANDY SHALE	16.0	41.0	
566.0	CARBONDALE		BLACK SHALE	1.0	57.0	
565.0	CARBONDALE		SANDY SHALE	15.0	58.0	

MAPID: 05700387000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 18 QUARTERS/FOOTAGES: 0' S line, 0' W line of NE SW

QUADRANGLE: ST. DAVID LONGITUDE: -90.101225 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.498813 DATE COLLECTED: 12 / 23 / 1927

SURFACE ELEVATION (FT.): 645.8 LOGGED (FT.): 77.3 LOG TYPE: Drillers Log

SOURCE: W. G. H. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.8			UNCONSOLIDATED	30.0	0.0	
615.8	CARBONDALE	CANTON	SHALE	39.8	30.0	CTNS 10-IN LS("RK") IN LWR 5 FT
576.0	CARBONDALE	ST. DAVID	LIMESTONE	0.3	69.8	"RK"
575.6	CARBONDALE		SHALE	0.6	70.2	
575.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	70.7	FISSILE
573.2	CARBONDALE	SPRINGFIELD	COAL	4.8	72.6	

MAPID: 05700388000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 18 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW SW

QUADRANGLE: CANTON LONGITUDE: -90.100241 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.502477 DATE COLLECTED: 12 / 29 / 1927

SURFACE ELEVATION (FT.): 647.4 LOGGED (FT.): 58.8 LOG TYPE: Drillers Log

SOURCE: W. G. H. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
647.4			UNCONSOLIDATED	23.0	0.0	
624.4	CARBONDALE	CANTON	SHALE	26.0	23.0	
598.4	CARBONDALE	ST. DAVID	LIMESTONE	1.3	49.0	"RK"
597.1	CARBONDALE		SHALE	1.8	50.3	
595.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.2	52.1	FISSILE
593.1	CARBONDALE	SPRINGFIELD	COAL	4.6	54.3	

MAPID: 05700389000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.095787 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.50245 DATE COLLECTED: 12 / 26 / 1927

SURFACE ELEVATION (FT.): 640.8 LOGGED (FT.): 55.8 LOG TYPE: Drillers Log

SOURCE: W. G. H. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.8			UNCONSOLIDATED	42.0	0.0	
598.8	CARBONDALE	CANTON	SHALE	3.0	42.0	
595.8	CARBONDALE	ST. DAVID	LIMESTONE	1.3	45.0	"RK"
594.5	CARBONDALE		SHALE	3.0	46.3	
591.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	49.3	FISSILE
590.0	CARBONDALE	SPRINGFIELD	COAL WITH SHALE	5.0	50.8	1-FT SH PTG, LWR 2 FT MXD W/ SH

MAPID: 05700396000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 18 QUARTERS/FOOTAGES: NW

QUADRANGLE: CANTON LONGITUDE: -90.100204 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.506147 DATE COLLECTED: 12 / 27 / 1927

SURFACE ELEVATION (FT.): 635.0 LOGGED (FT.): 66.5 LOG TYPE: Drillers Log

SOURCE: W. G. H. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.0			UNCONSOLIDATED	10.0	0.0	
625.0	CARBONDALE	CANTON	SHALE	47.4	10.0	
577.6	CARBONDALE	ST. DAVID	LIMESTONE	0.8	57.4	"RK"
576.8	CARBONDALE		SHALE	1.3	58.2	
575.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	59.5	FISSILE
573.5	CARBONDALE	SPRINGFIELD	COAL	5.0	61.5	

MAPID: 05700411000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 19 QUARTERS/FOOTAGES: NW NW SE NW

QUADRANGLE: ST. DAVID LONGITUDE: -90.100694 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.490999 DATE COLLECTED: 11 / 27 / 1927

SURFACE ELEVATION (FT.): 621.1 LOGGED (FT.): 35.1 LOG TYPE: Drillers Log

SOURCE: W. G. H. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.1			UNCONSOLIDATED	25.7	0.0	
595.4	CARBONDALE	ST. DAVID	LIMESTONE	0.8	25.7	"RK"
594.6	CARBONDALE		SHALE	0.2	26.5	
594.4	CARBONDALE	TURNER MINE	BLACK SHALE	3.4	26.7	FISSILE
591.0	CARBONDALE	SPRINGFIELD	COAL	4.8	30.1	
586.2	CARBONDALE		UNDERCLAY	0.2	34.9	

MAPID: 05700412000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 19 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NW
 QUADRANGLE: ST. DAVID LONGITUDE: -90.101313 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.487776 DATE COLLECTED: 12 / 1 / 1928
 SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 27.2 LOG TYPE: Drillers Log
 SOURCE: W. G. H. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	23.0	0.0	
597.0	CARBONDALE		SHALE	0.3	23.0	
596.7	CARBONDALE	SPRINGFIELD	COAL	1.4	23.3	"SOFT"
595.2	CARBONDALE		UNDERCLAY	2.4	24.8	

MAPID: 05700413000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 19 QUARTERS/FOOTAGES: 165' N line, 0' E line of SW SW
 QUADRANGLE: ST. DAVID LONGITUDE: -90.100334 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.48364 DATE COLLECTED: 12 / 2 / 1927
 SURFACE ELEVATION (FT.): 633.0 LOGGED (FT.): 39.8 LOG TYPE: Drillers Log
 SOURCE: W. G. H. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.0			UNCONSOLIDATED	31.5	0.0	
601.5	CARBONDALE		SHALE	3.0	31.5	
598.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	34.5	FISSILE
598.0	CARBONDALE	SPRINGFIELD	COAL	4.3	35.0	
593.7	CARBONDALE		UNDERCLAY	0.5	39.3	

MAPID: 05700414000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 19 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SW
 QUADRANGLE: ST. DAVID LONGITUDE: -90.100339 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.480411 DATE COLLECTED: 12 / 2 / 1927
 SURFACE ELEVATION (FT.): 610.6 LOGGED (FT.): 22.1 LOG TYPE: Drillers Log
 SOURCE: W. G. H. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.6			UNCONSOLIDATED	15.5	0.0	
595.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	15.5	FISSILE
593.9	CARBONDALE	SPRINGFIELD	COAL	4.4	16.7	
589.5	CARBONDALE		UNDERCLAY	1.0	21.1	

MAPID: 05700415000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 19 QUARTERS/FOOTAGES: 0' S line, 0' W line
 QUADRANGLE: ST. DAVID LONGITUDE: -90.104765 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.480397 DATE COLLECTED: 12 / 5 / 1927
 SURFACE ELEVATION (FT.): 630.0 LOGGED (FT.): 62.4 LOG TYPE: Drillers Log
 SOURCE: W. G. H. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.0			UNCONSOLIDATED	34.0	0.0	
596.0	CARBONDALE	CANTON	SHALE	19.0	34.0	
577.0	CARBONDALE	ST. DAVID	LIMESTONE	0.8	53.0	"RK"
576.2	CARBONDALE	TURNER MINE	BLACK SHALE	2.7	53.8	FISSILE
573.5	CARBONDALE	SPRINGFIELD	COAL WITH SHALE	4.9	56.5	6-IN SH PTG
568.6	CARBONDALE		UNDERCLAY	1.0	61.4	

MAPID: 05700419000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 19 QUARTERS/FOOTAGES: SW SW SW NE
 QUADRANGLE: ST. DAVID LONGITUDE: -90.095943 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.488231 DATE COLLECTED: 12 / 15 / 1927
 SURFACE ELEVATION (FT.): 628.6 LOGGED (FT.): 39.3 LOG TYPE: Drillers Log
 SOURCE: W. G. H. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
628.6			UNCONSOLIDATED	31.3	0.0	
597.3	CARBONDALE		SHALE	3.0	31.3	
594.3	CARBONDALE	SPRINGFIELD	COAL	5.0	34.3	

MAPID: 05700421000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 19 QUARTERS/FOOTAGES: SW SW SW NW
 QUADRANGLE: ST. DAVID LONGITUDE: -90.104212 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.488242 DATE COLLECTED: 12 / 17 / 1927
 SURFACE ELEVATION (FT.): 596.8 LOGGED (FT.): 12.8 LOG TYPE: Drillers Log
 SOURCE: W. G. H. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
596.8			UNCONSOLIDATED	2.2	0.0	
594.6	CARBONDALE		SHALE	6.3	2.2	
588.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	8.5	FISSILE
586.3	CARBONDALE	SPRINGFIELD	COAL	2.3	10.5	

MAPID: 05700422000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 4E

SECTION: 19

QUARTERS/FOOTAGES: NE NE SW NE

QUADRANGLE: ST. DAVID

LONGITUDE: -90.092346

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.490975

DATE COLLECTED: 12 / 15 / 1927

SURFACE ELEVATION (FT.): 635.8

LOGGED (FT.): 31.3

LOG TYPE: Drillers Log

SOURCE: W. G. H.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.8			UNCONSOLIDATED	23.0	0.0	
612.8	CARBONDALE		SHALE	2.5	23.0	
610.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	25.5	FISSILE
609.5	CARBONDALE	SPRINGFIELD	COAL	5.0	26.3	

MAPID: 05700424000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 4E

SECTION: 19

QUARTERS/FOOTAGES: 0' N line, 0' W line of SW NW

QUADRANGLE: ST. DAVID

LONGITUDE: -90.104768

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.491473

DATE COLLECTED: 12 / 17 / 1927

SURFACE ELEVATION (FT.): 616.6

LOGGED (FT.): 30.5

LOG TYPE: Drillers Log

SOURCE: W. G. H.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
616.6			UNCONSOLIDATED	19.5	0.0	
597.1	CARBONDALE	CANTON	SHALE	0.5	19.5	
596.6	CARBONDALE	ST. DAVID	LIMESTONE	1.2	20.0	"RK"
595.4	CARBONDALE		SHALE	2.0	21.2	
593.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	23.2	FISSILE
590.9	CARBONDALE	SPRINGFIELD	COAL	4.8	25.7	

MAPID: 05700425000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 4E

SECTION: 19

QUARTERS/FOOTAGES: NE NE NE NW

QUADRANGLE: ST. DAVID

LONGITUDE: -90.097087

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.494665

DATE COLLECTED: 12 / 16 / 1927

SURFACE ELEVATION (FT.): 632.2

LOGGED (FT.): 35.0

LOG TYPE: Drillers Log

SOURCE: W. G. H.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
632.2			UNCONSOLIDATED	24.5	0.0	
607.7	CARBONDALE	CANTON	SHALE	2.5	24.5	
605.2	CARBONDALE	ST. DAVID	LIMESTONE	0.2	27.0	"RK"
605.0	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	27.2	FISSILE
602.0	CARBONDALE	SPRINGFIELD	COAL	4.8	30.2	

MAPID: 05700430000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 20 QUARTERS/FOOTAGES: 80' S line, 380' W line of NE NE

QUADRANGLE: ST. DAVID LONGITUDE: -90.071423 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.491706 DATE COLLECTED: 0 / 0 / 1903

SURFACE ELEVATION (FT.): 625.5 LOGGED (FT.): 37.8 LOG TYPE: Drillers Log

SOURCE: SALINE COUNTY COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
625.5			UNCONSOLIDATED	29.1	0.0	
596.4	CARBONDALE	ST. DAVID	LIMESTONE	1.3	29.1	"CAP RK"
595.2	CARBONDALE	TURNER MINE	BLACK SHALE	2.7	30.3	FISSILE
592.5	CARBONDALE	SPRINGFIELD	COAL	4.8	33.0	

MAPID: 05700445000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 20 QUARTERS/FOOTAGES: 165' N line, 0' W line of SW NE

QUADRANGLE: ST. DAVID LONGITUDE: -90.077525 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.491003 DATE COLLECTED: 12 / 10 / 1927

SURFACE ELEVATION (FT.): 632.9 LOGGED (FT.): 39.8 LOG TYPE: Drillers Log

SOURCE: W. G. H. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
632.9			UNCONSOLIDATED	28.5	0.0	
604.4	CARBONDALE	CANTON	SHALE	2.0	28.5	
602.4	CARBONDALE	ST. DAVID	LIMESTONE	1.2	30.5	"RK"
601.2	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	31.7	FISSILE
599.0	CARBONDALE	SPRINGFIELD	COAL WITH SHALE	5.8	33.9	1-FT PTG

MAPID: 05700455000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 20 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NE

QUADRANGLE: ST. DAVID LONGITUDE: -90.072782 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.495135 DATE COLLECTED: 1 / 19 / 1928

SURFACE ELEVATION (FT.): 634.0 LOGGED (FT.): 51.8 LOG TYPE: Drillers Log

SOURCE: W. G. H. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
634.0			UNCONSOLIDATED	32.0	0.0	
602.0	CARBONDALE	CANTON	SHALE	11.5	32.0	
590.5	CARBONDALE	ST. DAVID	LIMESTONE	1.1	43.5	"RK"
589.4	CARBONDALE		SHALE	1.3	44.6	
588.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	45.8	FISSILE
586.7	CARBONDALE	SPRINGFIELD	COAL	4.6	47.3	

MAPID: 05700456000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 4E

SECTION: 20

QUARTERS/FOOTAGES: NE NE NE NE

QUADRANGLE: ST. DAVID

LONGITUDE: -90.068651

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.494697

DATE COLLECTED: 1 / 23 / 1928

SURFACE ELEVATION (FT.): 630.2

LOGGED (FT.): 54.1

LOG TYPE: Drillers Log

SOURCE: W. G. H.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.2			UNCONSOLIDATED	32.5	0.0	
597.7	CARBONDALE	CANTON	SHALE	12.8	32.5	
584.9	CARBONDALE	ST. DAVID	LIMESTONE	0.8	45.3	"RK"
584.0	CARBONDALE		SHALE	1.6	46.2	
582.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	47.7	FISSILE
581.9	CARBONDALE		CLAYSTONE	0.9	48.3	
581.0	CARBONDALE	SPRINGFIELD	COAL	4.8	49.2	

MAPID: 05700457000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 4E

SECTION: 20

QUARTERS/FOOTAGES: 165' S line, 0' W line of NE SE

QUADRANGLE: ST. DAVID

LONGITUDE: -90.072825

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.484625

DATE COLLECTED: 1 / 25 / 1928

SURFACE ELEVATION (FT.): 595.0

LOGGED (FT.): 51.1

LOG TYPE: Drillers Log

SOURCE: W. G. H.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
595.0			UNCONSOLIDATED	32.0	0.0	
563.0	CARBONDALE	CANTON	SHALE	10.0	32.0	
553.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	42.0	"RK"
552.0	CARBONDALE		SHALE	1.4	43.0	
550.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	44.4	FISSILE
548.9	CARBONDALE	SPRINGFIELD	COAL	5.0	46.1	

MAPID: 0570046000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 20 QUARTERS/FOOTAGES: 330' S line, 0' W line of SE NE

QUADRANGLE: ST. DAVID LONGITUDE: -90.072808 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.488736 DATE COLLECTED: 2 / 8 / 1928

SURFACE ELEVATION (FT.): 624.3 LOGGED (FT.): 39.8 LOG TYPE: Drillers Log

SOURCE: W. G. H. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
624.3			UNCONSOLIDATED	29.9	0.0	
594.4	CARBONDALE	CANTON	SHALE	3.0	29.9	
591.4	CARBONDALE	ST. DAVID	LIMESTONE	1.5	32.9	"RK", 6-IN SH PTG IN MDL
589.9	CARBONDALE		SHALE	1.0	34.4	
588.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	35.4	FISSILE
587.5	CARBONDALE	SPRINGFIELD	COAL	3.0	36.8	

MAPID: 05700464000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 21 QUARTERS/FOOTAGES: 27' N line, 8' E line of SE

QUADRANGLE: ST. DAVID LONGITUDE: -90.048954 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.487833 DATE COLLECTED: 0 / 0 / 1905

SURFACE ELEVATION (FT.): 612.7 LOGGED (FT.): 125.2 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
612.7			UNCONSOLIDATED	30.0	0.0	
582.7	CARBONDALE	CANTON	SHALE	1.5	30.0	"SOAPSTONE"
581.2	CARBONDALE	ST. DAVID	LIMESTONE	8.0	31.5	
573.2	CARBONDALE		UNDERCLAY	2.0	39.5	SPRINGFIELD?
571.2	CARBONDALE		SANDSTONE	16.5	41.5	
554.7	CARBONDALE		SHALE	26.0	58.0	SDY LWR 20 FT
528.7	CARBONDALE	PLEASANTVIEW	SANDSTONE	5.0	84.0	
523.7	CARBONDALE	PURINGTON	SHALE	21.3	89.0	
502.4	CARBONDALE	OAK GROVE	LIMESTONE	1.5	110.3	"CAP RK"
500.9	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.9	111.8	FISSILE
498.0	CARBONDALE	FRANCIS CREEK	SHALE	4.5	114.7	"SOAPSTONE"
493.5	CARBONDALE	COLCHESTER	COAL	2.3	119.2	BASE OF CARBONDALE
491.2	SPOON		UNDERCLAY	2.1	121.5	
489.1	SPOON		SANDY SHALE	1.6	123.6	

MAPID: 05700465000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 21 QUARTERS/FOOTAGES: 588' N line, 21' W line of NE NW

QUADRANGLE: ST. DAVID LONGITUDE: -90.063199 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.493553 DATE COLLECTED: 0 / 0 / 1905

SURFACE ELEVATION (FT.): 586.2 LOGGED (FT.): 145.0 LOG TYPE: Drillers Log

SOURCE: BIG CREEK COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
586.2			UNCONSOLIDATED	10.0	0.0	
576.2	CARBONDALE		SHALE	2.0	10.0	"SOAPSTONE"
574.2	CARBONDALE	PLEASANTVIEW	SANDSTONE	12.0	12.0	
562.2	CARBONDALE	PURINGTON	SHALE	39.2	24.0	"SOAPSTONE"
523.0	CARBONDALE	OAK GROVE	LIMESTONE	1.5	63.2	
521.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.2	64.7	FISSILE
518.4	CARBONDALE	FRANCIS CREEK	SHALE	2.8	67.8	"SOAPSTONE"
515.5	CARBONDALE	COLCHESTER	COAL	2.8	70.7	BASE OF CARBONDALE
512.8	SPOON		UNDERCLAY	2.0	73.4	
510.8	SPOON		SANDY SHALE	14.3	75.4	
496.4	SPOON		SANDSTONE	1.0	89.8	
495.4	SPOON		SANDY SHALE	2.3	90.8	
493.1	SPOON	WILEY	COAL	1.4	93.1	
491.7	SPOON		UNDERCLAY	1.5	94.5	
490.2	SPOON		SANDY SHALE	1.0	96.0	
489.2	SPOON		SANDSTONE	7.0	97.0	
482.2	SPOON		SHALE	7.0	104.0	"SOAPSTONE"
475.2	SPOON		BLACK SHALE	0.6	111.0	FISSILE
474.6	SPOON		SANDSTONE	0.6	111.6	
474.0	SPOON		UNDERCLAY	1.3	112.2	HERMON HZN
472.7	SPOON		SANDSTONE	7.5	113.5	
465.2	SPOON		SHALE	2.8	121.0	"SOAPSTONE" UPR 1.5 FT
462.4	SPOON		BLACK SHALE	1.0	123.8	FISSILE
461.4	SPOON	ROCK ISLAND	COAL WITH SHALE	6.2	124.8	2-FT SH IN 3 PTGS
455.2	SPOON		UNDERCLAY	8.0	131.0	BS SPOON; "SOAPSTONE" UPR 3 FT
447.2	ABBOTT	BERNADOTTE	SANDSTONE	4.0	139.0	
443.2	ABBOTT		SANDY SHALE	2.0	143.0	

MAPID: 05700465000C VERSION: 2

PROJECT: NCRDS87

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 21 QUARTERS/FOOTAGES: 588' N line, 21' W line of NE NW

QUADRANGLE: ST. DAVID

LONGITUDE: -90.063199

GEOLOGIST: WEIBEL

CONFIDENTIAL: N

LATITUDE: 40.493553

DATE COLLECTED: 0 / 0 / 1905

SURFACE ELEVATION (FT.): 586.0

LOGGED (FT.): 145.0

LOG TYPE: Other Core Study

SOURCE: BIG CREEK COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
586.0			UNCONSOLIDATED	10.0	0.0	
576.0	CARBONDALE		UNCLASSIFIED	43.0	10.0	
533.0	CARBONDALE		DARK SHALE	5.0	53.0	
528.0	CARBONDALE		GRAY SHALE	5.2	58.0	
522.8	CARBONDALE	ST. DAVID	LIMESTONE	1.5	63.2	
521.3	CARBONDALE	TURNER MINE	BLACK SHALE	3.2	64.7	
518.2	CARBONDALE		UNCLASSIFIED	2.8	67.8	
515.3	CARBONDALE	SPRINGFIELD	COAL	2.8	70.7	
512.6	CARBONDALE		UNDERCLAY	2.0	73.4	
510.6	CARBONDALE		UNCLASSIFIED	14.3	75.4	
496.2	CARBONDALE		SANDSTONE	1.0	89.8	
495.2	CARBONDALE		UNCLASSIFIED	2.3	90.8	
492.9	CARBONDALE		COAL	1.4	93.1	
491.5	CARBONDALE		UNDERCLAY	1.5	94.5	
490.0	CARBONDALE		UNCLASSIFIED	15.0	96.0	
475.0	CARBONDALE		BLACK SHALE	0.6	111.0	
474.4	CARBONDALE		SANDSTONE	0.6	111.6	
473.8	CARBONDALE		UNDERCLAY	1.3	112.2	
472.5	CARBONDALE		SANDSTONE	7.5	113.5	
465.0	CARBONDALE		UNCLASSIFIED	1.5	121.0	
463.5	CARBONDALE		DARK SHALE	1.3	122.5	
462.2	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.0	123.8	UNCERTAIN CORRELATION
461.2	CARBONDALE	COLCHESTER	COAL	1.0	124.8	UNCERTAIN CORRELATION
460.2			UNDERCLAY	1.6	125.8	
458.6			COAL	2.1	127.4	
456.5			UNDERCLAY	0.2	129.5	
456.3			COAL	0.3	129.7	
456.0			UNDERCLAY	0.2	130.0	
455.8			COAL	0.8	130.2	
455.0			UNCLASSIFIED	3.0	131.0	
452.0			UNDERCLAY	5.0	134.0	
447.0			SANDSTONE	4.0	139.0	
443.0			SHALE	2.0	143.0	

MAPID: 05700466000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 21 QUARTERS/FOOTAGES: 0' S line, 900' E line of NE
 QUADRANGLE: ST. DAVID LONGITUDE: -90.052178 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.487895 DATE COLLECTED: 12 / 13 / 1927
 SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 37.0 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	28.0	0.0	
592.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	28.0	
591.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	28.5	
589.5	CARBONDALE	SPRINGFIELD	COAL	4.0	30.5	"COAL, CLAY, & ROCK"
585.5	CARBONDALE		UNDERCLAY	2.5	34.5	

MAPID: 05700468000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 22 QUARTERS/FOOTAGES: 320' N line, 40' E line of SW SE
 QUADRANGLE: ST. DAVID LONGITUDE: -90.034818 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.483375 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 645.5 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log
 SOURCE: WHITEBREAST FUEL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.5			UNCONSOLIDATED	71.0	0.0	
574.5	CARBONDALE		SHALE	6.0	71.0	
568.5	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	77.0	FISSILE
565.5	CARBONDALE	SPRINGFIELD	COAL	5.0	80.0	

MAPID: 05700469000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 22 QUARTERS/FOOTAGES: 1300' N line, 102' E line of SW
 QUADRANGLE: ST. DAVID LONGITUDE: -90.039794 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.484307 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 645.6 LOGGED (FT.): 79.0 LOG TYPE: Drillers Log
 SOURCE: WHITEBREAST FUEL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.6			UNCONSOLIDATED	36.0	0.0	
609.6	CARBONDALE	CANTON	SHALE	33.0	36.0	
576.6	CARBONDALE	ST. DAVID	LIMESTONE	1.0	69.0	"CAP ROCK"
575.6	CARBONDALE	TURNER MINE	BLACK SHALE	4.0	70.0	FISSILE
571.6	CARBONDALE	SPRINGFIELD	COAL	5.0	74.0	

MAPID: 05700470000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 22 QUARTERS/FOOTAGES: 960' S line, 1335' E line of NE

QUADRANGLE: ST. DAVID LONGITUDE: -90.03466 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.490539 DATE COLLECTED:

SURFACE ELEVATION (FT.): 645.0 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: WHITEBREAST FUEL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.0			UNCONSOLIDATED	30.0	0.0	
615.0	CARBONDALE	CANTON	SHALE	50.0	30.0	INTRBDD SS LWR 15 FT
565.0	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	80.0	FISSILE
562.0	CARBONDALE	SPRINGFIELD	COAL	5.0	83.0	

MAPID: 05700471000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 22 QUARTERS/FOOTAGES: 1990' S line, 1318' E line of NE

QUADRANGLE: ST. DAVID LONGITUDE: -90.034566 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.493378 DATE COLLECTED:

SURFACE ELEVATION (FT.): 653.0 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log

SOURCE: WHITEBREAST FUEL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.0			UNCONSOLIDATED	35.0	0.0	
618.0	CARBONDALE	CANTON	SHALE	30.0	35.0	
588.0	CARBONDALE	TURNER MINE	BLACK SHALE	4.0	65.0	FISSILE
584.0	CARBONDALE	SPRINGFIELD	COAL	5.0	69.0	

MAPID: 05700473000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 22 QUARTERS/FOOTAGES: 1746' S line, 363' E line of NW

QUADRANGLE: ST. DAVID LONGITUDE: -90.040669 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.492713 DATE COLLECTED:

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 56.0 LOG TYPE: Drillers Log

SOURCE: WHITEBREAST FUEL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0			UNCONSOLIDATED	36.0	0.0	
604.0	CARBONDALE	CANTON	SHALE	12.0	36.0	
592.0	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	48.0	FISSILE
589.0	CARBONDALE	SPRINGFIELD	COAL	5.0	51.0	

MAPID: 05700474000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 22 QUARTERS/FOOTAGES: 619' S line, 613' E line of NW

QUADRANGLE: ST. DAVID LONGITUDE: -90.041599 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.489605 DATE COLLECTED:

SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 40.5 LOG TYPE: Drillers Log

SOURCE: WHITEBREAST FUEL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	13.0	0.0	
607.0	CARBONDALE	CANTON	SHALE	19.0	13.0	
588.0	CARBONDALE	ST. DAVID	LIMESTONE	1.5	32.0	"CAP ROCK"
586.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	33.5	FISSILE
584.5	CARBONDALE	SPRINGFIELD	COAL	5.0	35.5	

MAPID: 05700479000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 22 QUARTERS/FOOTAGES: SW SW SE

QUADRANGLE: ST. DAVID LONGITUDE: -90.038258 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.481527 DATE COLLECTED:

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 72.7 LOG TYPE: Drillers Log

SOURCE: WHITEBREAST FUEL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0			UNCONSOLIDATED	36.0	0.0	
604.0	CARBONDALE		SANDSTONE	20.0	36.0	
584.0	CARBONDALE		SHALE	3.0	56.0	
581.0	CARBONDALE		BLACK SHALE	3.0	59.0	FISSILE
578.0	CARBONDALE	ST. DAVID	LIMESTONE	2.0	62.0	"CAP RK"
576.0	CARBONDALE	TURNER MINE	BLACK SHALE	4.0	64.0	FISSILE
572.0	CARBONDALE	SPRINGFIELD	COAL	4.7	68.0	

MAPID: 05724672000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: ST. DAVID LONGITUDE: -90.011562

GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.480539

DATE COLLECTED: 6 / 20 / 1940

SURFACE ELEVATION (FT.): LOGGED (FT.): 63.3

LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO.108B

WELL TYPE: Coal Test

COMMENT: PERMIT 18; BUCKHEART MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		UNCONSOLIDATED	28.0	0.0	
-	PLEISTOCENE		SAND	4.5	28.0	
-	CARBONDALE		SHALE	23.7	32.5	
-	CARBONDALE		ROCK	0.3	56.2	
-	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	56.5	
-	CARBONDALE	SPRINGFIELD	COAL	5.2	58.2	

MAPID: 05700481000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 24 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SE SW

QUADRANGLE: ST. DAVID LONGITUDE: -90.006044

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.48246

DATE COLLECTED: 2 / 0 / 1929

SURFACE ELEVATION (FT.): 610.4 LOGGED (FT.): 70.5

LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.4			ROCK	63.0	0.0	"DEEPENED"
547.4	CARBONDALE		SHALE	6.0	63.0	
541.4	CARBONDALE	SPRINGFIELD	COAL	1.5	69.0	

MAPID: 05700483000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 24 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW

QUADRANGLE: ST. DAVID LONGITUDE: -90.010552

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.491524

DATE COLLECTED: 11 / 27 / 1929

SURFACE ELEVATION (FT.): 612.6 LOGGED (FT.): 35.5

LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
612.6			UNCONSOLIDATED	19.0	0.0	
593.6	CARBONDALE		SANDY SHALE	10.0	19.0	
583.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	29.0	FISSILE
582.6	CARBONDALE	SPRINGFIELD	COAL	5.5	30.0	

MAPID: 05724673000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: ST. DAVID LONGITUDE: -90.009473

GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.481455

DATE COLLECTED: 3 / 23 / 1939

SURFACE ELEVATION (FT.): LOGGED (FT.): 45.9

LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO.109D

WELL TYPE: Coal Test

COMMENT: PERMIT 18; BUCKHEART MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	PLEISTOCENE		UNCONSOLIDATED	13.0	0.0
-	CARBONDALE		SHALE	26.5	13.0
-	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	39.5
-	CARBONDALE	SPRINGFIELD	COAL	5.1	40.8

MAPID: 05724674000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: ST. DAVID LONGITUDE: -90.007139

GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.481454

DATE COLLECTED: 3 / 23 / 1939

SURFACE ELEVATION (FT.): LOGGED (FT.): 56.8

LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO 109

WELL TYPE: Coal Test

COMMENT: PERMIT 18; BUCKHEART MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	PLEISTOCENE		UNCONSOLIDATED	32.0	0.0
-	CARBONDALE		SHALE	15.3	32.0
-	CARBONDALE		ROCK	0.4	47.3
-	CARBONDALE		SHALE	2.5	47.8
-	CARBONDALE	TURNER MINE	BLACK SHALE	2.4	50.3
-	CARBONDALE	SPRINGFIELD	COAL	4.2	52.7

MAPID: 05724675000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: ST. DAVID LONGITUDE: -90.004657

GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.481506

DATE COLLECTED: 3 / 22 / 1939

SURFACE ELEVATION (FT.): LOGGED (FT.): 44.4

LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO 110D

WELL TYPE: Coal Test

COMMENT: PERMIT 18; BUCKHEART MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		UNCONSOLIDATED	26.5	0.0	
-	CARBONDALE		SHALE	9.3	26.5	
-	CARBONDALE		ROCK	1.0	35.8	
-	CARBONDALE		SHALE	1.2	36.8	
-	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	38.0	
-	CARBONDALE	SPRINGFIELD	COAL	5.3	39.2	

MAPID: 05724676000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: ST. DAVID LONGITUDE: -90.002409

GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.481447

DATE COLLECTED: 3 / 22 / 1939

SURFACE ELEVATION (FT.): LOGGED (FT.): 44.6

LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO.110E

WELL TYPE: Coal Test

COMMENT: PERMIT 18; BUCKHEART MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		UNCONSOLIDATED	29.0	0.0	
-	CARBONDALE		SHALE	5.8	29.0	
-	CARBONDALE		ROCK	0.2	34.8	
-	CARBONDALE		SHALE	1.3	34.9	
-	PLEISTOCENE		SANDSTONE	3.6	36.2	
-	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	39.8	
-	CARBONDALE	SPRINGFIELD	COAL	4.2	40.4	

MAPID: 057EC000161Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 24 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SW NE

QUADRANGLE: BANNER LONGITUDE: -90.001233

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.489718

DATE COLLECTED:

SURFACE ELEVATION (FT.): 568.0 LOGGED (FT.): 13.0

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS; 161C

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
568.0			UNCONSOLIDATED	10.0	0.0	
558.0	CARBONDALE	SPRINGFIELD	COAL	3.0	10.0	PROB ERODED

MAPID: 057EC000186Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 24 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SE NW NE

QUADRANGLE: BANNER LONGITUDE: -89.99769 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.491532 DATE COLLECTED:

SURFACE ELEVATION (FT.): 622.0 LOGGED (FT.): 66.0 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS; 1860

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.0			UNCONSOLIDATED	34.0	0.0	
588.0	CARBONDALE		SANDY SHALE	6.0	34.0	
582.0	CARBONDALE	VERMILIONVILLE	SANDSTONE	20.0	40.0	
562.0	CARBONDALE		SHALE	1.0	60.0	
561.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	61.0	FISSILE
560.3	CARBONDALE	SPRINGFIELD	COAL	4.3	61.7	

MAPID: 05700485000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 25 QUARTERS/FOOTAGES: NE

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.996801 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.477 DATE COLLECTED: 10 / 27 / 1928

SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 65.8 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.0			UNCONSOLIDATED	30.0	0.0	
580.0	CARBONDALE	CANTON	SHALE	26.0	30.0	
554.0	CARBONDALE	ST. DAVID	LIMESTONE	2.0	56.0	"RK"
552.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.8	58.0	FISSILE
549.2	CARBONDALE	SPRINGFIELD	COAL	5.0	60.8	

MAPID: 05724677000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: ST. DAVID LONGITUDE: -90.010527

GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.476929

DATE COLLECTED: 9 / 12 / 1939

SURFACE ELEVATION (FT.): LOGGED (FT.): 68.5

LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO 84

WELL TYPE: Coal Test

COMMENT: PERMIT 18; BUCKHEART MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	PLEISTOCENE		UNCONSOLIDATED	29.0	0.0
-	CARBONDALE		SANDY SHALE	6.0	29.0
-	CARBONDALE		GRAY SHALE	24.0	35.0
-	CARBONDALE		ROCK	1.7	59.0
-	CARBONDALE		SHALE	0.8	60.7
-	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	61.5
-	CARBONDALE	SPRINGFIELD	COAL	5.5	63.0

MAPID: 05724678000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: ST. DAVID LONGITUDE: -90.008259

GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.478558

DATE COLLECTED: 3 / 28 / 1939

SURFACE ELEVATION (FT.): LOGGED (FT.): 71.8

LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO 84-A

WELL TYPE: Coal Test

COMMENT: PERMIT 18; BUCKHEART MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	PLEISTOCENE		UNCONSOLIDATED	24.0	0.0
-	CARBONDALE		SHALE	38.3	24.0
-	CARBONDALE		ROCK	1.3	62.3
-	CARBONDALE		SHALE	1.3	63.6
-	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	64.8
-	CARBONDALE	SPRINGFIELD	COAL	5.3	66.5

MAPID: 05724679000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: ST. DAVID LONGITUDE: -90.008296

GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.477186

DATE COLLECTED: 9 / 12 / 1939

SURFACE ELEVATION (FT.): LOGGED (FT.): 66.5

LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO 84-B

WELL TYPE: Coal Test

COMMENT: PERMIT 18; BUCKHEART MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	PLEISTOCENE		UNCONSOLIDATED	23.0	0.0
-	CARBONDALE		SHALE	37.8	23.0
-	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	60.8
-	CARBONDALE	SPRINGFIELD	COAL	4.2	62.3

MAPID: 05724680000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: ST. DAVID LONGITUDE: -90.009516

GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.479466

DATE COLLECTED: 3 / 26 / 1939

SURFACE ELEVATION (FT.): LOGGED (FT.): 70.9

LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO 84-F

WELL TYPE: Coal Test

COMMENT: PERMIT 18; BUCKHEART MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	PLEISTOCENE		UNCONSOLIDATED	28.0	0.0
-	CARBONDALE		SHALE	35.0	28.0
-	CARBONDALE		ROCK	0.3	63.0
-	CARBONDALE		SHALE	1.2	63.3
-	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	64.5
-	CARBONDALE	SPRINGFIELD	COAL	5.1	65.8

MAPID: 05724681000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: ST. DAVID LONGITUDE: -90.007106

GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.479435

DATE COLLECTED: 3 / 24 / 1939

SURFACE ELEVATION (FT.): LOGGED (FT.): 51.6

LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO 84-G

WELL TYPE: Coal Test

COMMENT: PERMIT 18; BUCKHEART MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	PLEISTOCENE		UNCONSOLIDATED	19.0	0.0
-	CARBONDALE		SHALE	23.5	19.0
-	CARBONDALE		ROCK	1.6	42.5
-	CARBONDALE		SHALE	0.7	44.1
-	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	44.8
-	CARBONDALE		ROCK	0.8	46.3
-	CARBONDALE	SPRINGFIELD	COAL	4.5	47.1

MAPID: 05724682000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: ST. DAVID LONGITUDE: -90.005924

GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.476923

DATE COLLECTED: 9 / 12 / 1939

SURFACE ELEVATION (FT.): LOGGED (FT.): 13.8

LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO 85

WELL TYPE: Coal Test

COMMENT: PERMIT 18; BUCKHEART MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0
-	CARBONDALE		SHALE	2.8	4.0
-	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	6.8
-	CARBONDALE	SPRINGFIELD	COAL	4.5	9.3

MAPID: 05724683000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: ST. DAVID LONGITUDE: -90.004736

GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.47942

DATE COLLECTED: 3 / 28 / 1939

SURFACE ELEVATION (FT.): LOGGED (FT.): 36.2

LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO 85-D

WELL TYPE: Coal Test

COMMENT: PERMIT 18; BUCKHEART MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	PLEISTOCENE		UNCONSOLIDATED	14.0	0.0
-	CARBONDALE		SHALE	15.1	14.0
-	CARBONDALE	TURNER MINE	BLACK SHALE	2.8	29.1
-	CARBONDALE	SPRINGFIELD	COAL	4.3	31.9

MAPID: 05724684000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: ST. DAVID LONGITUDE: -90.00247 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.478922 DATE COLLECTED: 8 / 5 / 1939

SURFACE ELEVATION (FT.): LOGGED (FT.): 33.5 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO.85-E WELL TYPE: Coal Test

COMMENT: PERMIT 18; BUCKHEART MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	PLEISTOCENE		UNCONSOLIDATED	24.0	0.0
-	CARBONDALE		ROCK	1.0	24.0
-	CARBONDALE		SHALE	2.3	25.0
-	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	27.3
-	CARBONDALE	SPRINGFIELD	COAL	4.6	28.9

MAPID: 05724685000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: ST. DAVID LONGITUDE: -90.013023 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.478675 DATE COLLECTED: 9 / 9 / 1940

SURFACE ELEVATION (FT.): LOGGED (FT.): 76.4 LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO.83A WELL TYPE: Coal Test

COMMENT: PERMIT 18; BUCKHEART MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	PLEISTOCENE		UNCONSOLIDATED	27.0	0.0
-	PLEISTOCENE		SAND	5.0	27.0
-	CARBONDALE		SHALE	2.5	32.0
-	CARBONDALE		ROCK	0.8	34.5
-	CARBONDALE		SHALE	33.0	35.3
-	CARBONDALE		ROCK	0.4	68.3
-	CARBONDALE		SHALE	0.7	68.8
-	CARBONDALE		ROCK	1.7	69.4
-	CARBONDALE	SPRINGFIELD	COAL	5.3	71.1

MAPID: 05724686000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: ST. DAVID LONGITUDE: -90.013115

GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.476931

DATE COLLECTED: 9 / 9 / 1941

SURFACE ELEVATION (FT.): LOGGED (FT.): 77.1

LOG TYPE: Drillers Log

SOURCE: FREEMAN UNITED COAL MINING CO 83-B

WELL TYPE: Coal Test

COMMENT: PERMIT 18; BUCKHEART MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		UNCONSOLIDATED	25.0	0.0	
-	CARBONDALE		SHALE	47.0	25.0	
-	CARBONDALE		BLACK SHALE	0.7	72.0	
-	CARBONDALE		ROCK	0.4	72.7	
-	CARBONDALE	SPRINGFIELD	COAL	4.0	73.1	

MAPID: 05700489000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 27 QUARTERS/FOOTAGES: NE NE NE NE

QUADRANGLE: ST. DAVID LONGITUDE: -90.030548

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.480185

DATE COLLECTED:

SURFACE ELEVATION (FT.): 646.0 LOGGED (FT.): 95.5

LOG TYPE: Drillers Log

SOURCE: WHITEBREAST FUEL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.0			UNCONSOLIDATED	35.0	0.0	
611.0	CARBONDALE	CANTON	SHALE	52.0	35.0	"SOAPSTONE", CTNS LS ("RK") BDS
559.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	87.0	"CAP ROCK"
558.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	88.0	FISSILE
556.0	CARBONDALE	SPRINGFIELD	COAL	5.5	90.0	

MAPID: 05700490000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 27 QUARTERS/FOOTAGES: NE

QUADRANGLE: ST. DAVID LONGITUDE: -90.034758

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.476993

DATE COLLECTED:

SURFACE ELEVATION (FT.): 649.0 LOGGED (FT.): 92.0

LOG TYPE: Drillers Log

SOURCE: WHITEBREAST FUEL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.0			UNCONSOLIDATED	40.0	0.0	
609.0	CARBONDALE	CANTON	SHALE	43.0	40.0	"SOAPSTONE"
566.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	83.0	"CAP RK"
565.0	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	84.0	FISSILE
562.0	CARBONDALE	SPRINGFIELD	COAL	5.0	87.0	

MAPID: 05700491000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 4E

SECTION: 27

QUARTERS/FOOTAGES: SE SE NW SE

QUADRANGLE: ST. DAVID

LONGITUDE: -90.035461

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.470178

DATE COLLECTED:

SURFACE ELEVATION (FT.): 618.0

LOGGED (FT.): 54.0

LOG TYPE: Drillers Log

SOURCE: WHITEBREAST FUEL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
618.0			UNCONSOLIDATED	35.0	0.0	
583.0	CARBONDALE		SHALE	11.0	35.0	"SOAPSTONE"
572.0	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	46.0	FISSILE
569.0	CARBONDALE	SPRINGFIELD	COAL	5.0	49.0	

MAPID: 05700497000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 27 QUARTERS/FOOTAGES: 95' N line, 150' W line of NE SE

QUADRANGLE: ST. DAVID LONGITUDE: -90.034277 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.473097 DATE COLLECTED: 0 / 0 / 1905

SURFACE ELEVATION (FT.): 607.9 LOGGED (FT.): 247.5 LOG TYPE: Drillers Log

SOURCE: SALINE COUNTY COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
607.9			UNCONSOLIDATED	17.0	0.0	
590.9	CARBONDALE	ST. DAVID	LIMESTONE	10.0	17.0	"DK RK"
580.9	CARBONDALE		SHALE	9.0	27.0	
571.9	CARBONDALE		SANDSTONE	10.0	36.0	
561.9	CARBONDALE		SANDY SHALE	8.0	46.0	
553.9	CARBONDALE		SANDSTONE	59.0	54.0	
494.9	CARBONDALE	FRANCIS CREEK	SHALE	1.1	113.0	SDY,DK
493.8	CARBONDALE	COLCHESTER	COAL	1.9	114.1	BASE OF CARBONDALE
491.9	SPOON		BLACK SHALE	0.1	116.0	FISSILE
491.8	SPOON		UNDERCLAY	2.3	116.1	
489.6	SPOON		SANDSTONE	9.3	118.3	
480.2	SPOON		SHALE	6.7	127.7	
473.6	SPOON		COAL	0.7	134.3	
472.9	SPOON		UNDERCLAY	1.7	135.0	
471.2	SPOON		SANDSTONE	7.0	136.7	
464.2	SPOON		SHALE	4.4	143.7	
459.8	SPOON		BLACK SHALE	0.5	148.1	FISSILE
459.3	SPOON		SHALE	8.4	148.6	
450.9	SPOON		SANDSTONE	14.0	157.0	
436.9	SPOON		SANDY SHALE	4.0	171.0	
432.9	SPOON		SANDSTONE	8.0	175.0	
424.9	SPOON		SANDY SHALE	16.8	183.0	
408.1	SPOON	ROCK ISLAND	COAL WITH SHALE	12.5	199.8	11.5 FT SH PTG
395.6	SPOON		UNDERCLAY	3.8	212.3	BASE OF SPOON
391.8	ABBOTT		SANDY SHALE	1.4	216.1	
390.4	ABBOTT		BLACK SHALE	0.6	217.5	FISSILE
389.8	ABBOTT		SHALE	1.9	218.1	SDY,DK
387.9	ABBOTT		LIMESTONE	0.5	220.0	
387.4	ABBOTT		SHALE	3.0	220.5	
384.4	ABBOTT		UNDERCLAY	1.0	223.5	
383.4	ABBOTT		SANDY SHALE	2.5	224.5	
380.9	ABBOTT		UNDERCLAY	2.0	227.0	
378.9	ABBOTT		SHALE	17.8	229.0	
361.1	ABBOTT		LIMESTONE	0.8	246.8	

MAPID: 05700498000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 28 QUARTERS/FOOTAGES: 1345' S line, 36' W line of NE

QUADRANGLE: ST. DAVID LONGITUDE: -90.058461 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.477031 DATE COLLECTED: 0 / 0 / 1905

SURFACE ELEVATION (FT.): 614.8 LOGGED (FT.): 165.0 LOG TYPE: Drillers Log

SOURCE: SALINE COUNTY COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
614.8			UNCONSOLIDATED	21.0	0.0	
593.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	21.0	FISSILE
592.1	CARBONDALE	SPRINGFIELD	COAL	4.8	22.7	
587.3	CARBONDALE		UNDERCLAY	7.5	27.5	
579.8	CARBONDALE		BLACK SHALE	1.5	35.0	BK,FIS,SOFT
578.3	CARBONDALE		SHALE	52.5	36.5	SDY IN MDL
525.8	CARBONDALE		SANDSTONE	14.0	89.0	
511.8	CARBONDALE	OAK GROVE	LIMESTONE	20.9	103.0	SDY, 18.33-FT SH PTG
490.9	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.9	123.9	FISSILE
487.0	CARBONDALE	COLCHESTER	COAL	2.3	127.8	BASE OF CARBONDALE
484.6	SPOON		UNDERCLAY	1.7	130.2	
483.0	SPOON		SANDY SHALE	6.2	131.8	
476.8	SPOON		SANDSTONE	9.8	138.0	
467.0	SPOON		SANDY SHALE	2.5	147.8	
464.5	SPOON	WILEY	COAL	1.2	150.3	
463.4	SPOON		UNDERCLAY	6.5	151.4	
456.9	SPOON		SANDY SHALE	7.1	157.9	

MAPID: 05700499000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 28 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SW

QUADRANGLE: ST. DAVID LONGITUDE: -90.063554 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.466069 DATE COLLECTED: 12 / 17 / 1927

SURFACE ELEVATION (FT.): 622.0 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.0			UNCONSOLIDATED	43.0	0.0	SOME RK
579.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	43.0	
577.0	CARBONDALE	SPRINGFIELD	COAL	5.0	45.0	

MAPID: 05700500000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: ST. DAVID

LONGITUDE: -90.058652

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.473319

DATE COLLECTED: 12 / 16 / 1927

SURFACE ELEVATION (FT.): 626.0

LOGGED (FT.): 36.8

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
626.0			UNCONSOLIDATED	23.0	0.0	
603.0	CARBONDALE	ST. DAVID	LIMESTONE	4.8	23.0	3-FT SH PTG IN LWR 1/2
598.2	CARBONDALE	SPRINGFIELD	COAL	5.0	27.8	CTNS SOME SH
593.2	CARBONDALE		UNDERCLAY	4.0	32.8	

MAPID: 05700501000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 28 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE NE

QUADRANGLE: ST. DAVID

LONGITUDE: -90.053745

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.480571

DATE COLLECTED: 12 / 13 / 1927

SURFACE ELEVATION (FT.): 610.0

LOGGED (FT.): 25.0

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.0			UNCONSOLIDATED	19.0	0.0	
591.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	19.0	
590.5	CARBONDALE	SPRINGFIELD	COAL	5.5	19.5	

MAPID: 05700502000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 29 QUARTERS/FOOTAGES: 800' N line, 246' E line of SW

QUADRANGLE: ST. DAVID LONGITUDE: -90.078617 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.47108 DATE COLLECTED:

SURFACE ELEVATION (FT.): 623.0 LOGGED (FT.): 1395.0 LOG TYPE: Drillers Log

SOURCE: ROTH & FARWORTH (?) WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
623.0			UNCONSOLIDATED	42.0	0.0	
581.0	CARBONDALE	SPRINGFIELD	COAL	5.0	42.0	
576.0	CARBONDALE		SHALE	91.0	47.0	
485.0	CARBONDALE	OAK GROVE	LIMESTONE	3.0	138.0	
482.0	CARBONDALE	COLCHESTER	COAL	5.0	141.0	BASE OF CARBONDALE
477.0	SPOON		SHALE	89.0	146.0	LCLY SDY
388.0	SPOON		SANDSTONE	35.0	235.0	
353.0	SPOON		SHALE	17.0	270.0	BASE OF PENNSYLVANIAN
336.0			ROCK	1108.0	287.0	MISSISSIPPIAN AND OLDER

MAPID: 05700503000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 0' E line

QUADRANGLE: ST. DAVID LONGITUDE: -90.068333 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.466063 DATE COLLECTED:

SURFACE ELEVATION (FT.): 621.2 LOGGED (FT.): 53.7 LOG TYPE: Drillers Log

SOURCE: SALINE COUNTY COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.2			UNCONSOLIDATED	45.4	0.0	
575.8	CARBONDALE	ST. DAVID	LIMESTONE	0.7	45.4	
575.1	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	46.1	FISSILE
572.6	CARBONDALE	SPRINGFIELD	COAL	5.1	48.6	

MAPID: 05700506000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 32 QUARTERS/FOOTAGES: 0' S line, 600' W line of NE NW
 QUADRANGLE: ST. DAVID LONGITUDE: -90.080405 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.462437 DATE COLLECTED: 7 / 0 / 1905
 SURFACE ELEVATION (FT.): 612.2 LOGGED (FT.): 37.8 LOG TYPE: Drillers Log
 SOURCE: SALINE COUNTY COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
612.2			UNCONSOLIDATED	30.0	0.0	
582.2	CARBONDALE	ST. DAVID	LIMESTONE	0.8	30.0	
581.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	30.8	FISSILE
578.9	CARBONDALE	SPRINGFIELD	COAL	4.6	33.3	

MAPID: 05700507000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 32 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW
 QUADRANGLE: ST. DAVID LONGITUDE: -90.087339 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.458794 DATE COLLECTED: 12 / 22 / 1927
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 38.0 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0			UNCONSOLIDATED	31.0	0.0	
569.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	31.0	
567.0	CARBONDALE	SPRINGFIELD	COAL	5.0	33.0	

MAPID: 05700508000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 32 QUARTERS/FOOTAGES: SW
 QUADRANGLE: ST. DAVID LONGITUDE: -90.082641 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.455145 DATE COLLECTED: 12 / 22 / 1927
 SURFACE ELEVATION (FT.): 602.0 LOGGED (FT.): 47.0 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
602.0			UNCONSOLIDATED	38.0	0.0	AND SH
564.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	38.0	
563.5	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	38.5	
560.5	CARBONDALE	SPRINGFIELD	COAL	5.5	41.5	

MAPID: 05700510000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 32 QUARTERS/FOOTAGES: NE

QUADRANGLE: ST. DAVID LONGITUDE: -90.073104 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.462431 DATE COLLECTED: 12 / 22 / 1927

SURFACE ELEVATION (FT.): 607.0 LOGGED (FT.): 37.3 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
607.0			UNCONSOLIDATED	20.0	0.0	
587.0	CARBONDALE		SANDSTONE	4.0	20.0	
583.0	CARBONDALE		SHALE	6.0	24.0	
577.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	30.0	
575.0	CARBONDALE	SPRINGFIELD	COAL	5.3	32.0	

MAPID: 05700511000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 4E SECTION: 33 QUARTERS/FOOTAGES: 0' N line, 300' W line of SW

QUADRANGLE: ST. DAVID LONGITUDE: -90.067323 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.458792 DATE COLLECTED: 0 / 0 / 1928

SURFACE ELEVATION (FT.): 616.3 LOGGED (FT.): 40.6 LOG TYPE: Drillers Log

SOURCE: SALINE COUNTY COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
616.3			UNCONSOLIDATED	38.9	0.0	
577.4	CARBONDALE	SPRINGFIELD	COAL	1.7	38.9	PROB ERODED

MAPID: 05701811000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 1 QUARTERS/FOOTAGES: 1300' S line, 340' E line

QUADRANGLE: BANNER LONGITUDE: -89.876587 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.527768 DATE COLLECTED:

SURFACE ELEVATION (FT.): 459.1 LOGGED (FT.): 56.8 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
459.1			UNCONSOLIDATED	14.0	0.0	
445.1	CARBONDALE		SHALE	8.5	14.0	
436.6	CARBONDALE		SANDSTONE	1.6	22.5	
435.0	CARBONDALE		SHALE	7.6	24.1	
427.4	CARBONDALE		BLACK SHALE	0.8	31.7	FISSILE
426.7	CARBONDALE		SANDSTONE	1.8	32.4	
424.9	CARBONDALE		BLACK SHALE	2.6	34.2	FISSILE
422.3	CARBONDALE		SHALE	1.4	36.8	DARK
420.9	CARBONDALE	PURINGTON	SHALE	12.2	38.2	
408.7	CARBONDALE	OAK GROVE	LIMESTONE	1.7	50.4	"RK"
407.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.2	52.1	FISSILE
405.8	CARBONDALE	COLCHESTER	COAL	2.6	53.3	BASE OF CARBONDALE
403.3	SPOON		UNDERCLAY	1.0	55.8	

MAPID: 05786609000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 4 QUARTERS/FOOTAGES: 1' N line, 5' W line of SW SW

QUADRANGLE: BANNER LONGITUDE: -89.953139 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.527846 DATE COLLECTED: 7 / 10 / 1941

SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 71.8 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 59 WELL TYPE: Coal Test

COMMENT: SE CANTON BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0	PLEISTOCENE		UNCONSOLIDATED	23.0	0.0	
577.0	PLEISTOCENE		CLAY	11.0	23.0	
566.0	PLEISTOCENE		CLAY	27.0	34.0	
539.0	CARBONDALE		SHALE	5.0	61.0	
534.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	66.0	
533.0	CARBONDALE	SPRINGFIELD	COAL	4.8	67.0	

MAPID: 057EC000472Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 5E

SECTION: 4

QUARTERS/FOOTAGES: SE NE SW NW

QUADRANGLE: BANNER

LONGITUDE: -89.948954

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.533805

DATE COLLECTED:

SURFACE ELEVATION (FT.): 607.0

LOGGED (FT.): 71.0

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS; HOLE 0-472C

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
607.0			UNCONSOLIDATED	64.0	0.0	
543.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	64.0	FISSILE
541.2	CARBONDALE	SPRINGFIELD	COAL	5.0	65.8	
536.2	CARBONDALE		UNDERCLAY	0.3	70.8	

MAPID: 057EC000493Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 5E

SECTION: 5

QUARTERS/FOOTAGES: NW

QUADRANGLE: BANNER

LONGITUDE: -89.967442

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.535249

DATE COLLECTED:

SURFACE ELEVATION (FT.): 592.0

LOGGED (FT.): 62.7

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
592.0			UNCONSOLIDATED	26.0	0.0	
566.0	CARBONDALE	CANTON	SHALE	32.0	26.0	
534.0	CARBONDALE	ST. DAVID	LIMESTONE	0.3	58.0	"RK"
533.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	58.3	FISSILE
533.2	CARBONDALE	SPRINGFIELD	COAL	3.9	58.8	

MAPID: 057EC000444Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 5E

SECTION: 5

QUARTERS/FOOTAGES: SW SE NW SE

QUADRANGLE: BANNER

LONGITUDE: -89.959748

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.528323

DATE COLLECTED:

SURFACE ELEVATION (FT.): 611.0

LOGGED (FT.): 88.4

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS; HOLE 444B

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
611.0			UNCONSOLIDATED	40.0	0.0	
571.0	CARBONDALE	CANTON	SHALE	38.2	40.0	
532.8	CARBONDALE	ST. DAVID	LIMESTONE	3.3	78.2	"RK","CLOD" LWR 2.42 FT
529.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	81.4	FISSILE
527.6	CARBONDALE	SPRINGFIELD	COAL	5.0	83.4	

MAPID: 057EC000469Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 5E

SECTION: 5

QUARTERS/FOOTAGES: SW SW SW NE

QUADRANGLE: BANNER

LONGITUDE: -89.962112

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.532008

DATE COLLECTED:

SURFACE ELEVATION (FT.): 600.0

LOGGED (FT.): 67.7

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0			UNCONSOLIDATED	37.0	0.0	
563.0	CARBONDALE	CANTON	SHALE	23.0	37.0	
540.0	CARBONDALE	ST. DAVID	LIMESTONE	1.3	60.0	"RK", "CLOD" LWR 1 FT
538.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	61.3	FISSILE
537.7	CARBONDALE	SPRINGFIELD	COAL	5.3	62.3	

MAPID: 057EC000495Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 5E

SECTION: 5

QUARTERS/FOOTAGES: NE

QUADRANGLE: BANNER

LONGITUDE: -89.95792

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.535214

DATE COLLECTED:

SURFACE ELEVATION (FT.): 610.0

LOGGED (FT.): 71.3

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.0			UNCONSOLIDATED	55.0	0.0	
555.0	CARBONDALE	CANTON	SHALE	10.7	55.0	
544.3	CARBONDALE	ST. DAVID	LIMESTONE	0.2	65.7	"RK"
544.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	65.8	FISSILE
543.5	CARBONDALE	SPRINGFIELD	COAL	4.8	66.5	

MAPID: 057EC000489Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 5E

SECTION: 6

QUARTERS/FOOTAGES: SW SW NE NW

QUADRANGLE: BANNER

LONGITUDE: -89.985715

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.535785

DATE COLLECTED:

SURFACE ELEVATION (FT.): 583.0

LOGGED (FT.): 38.1

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
583.0			UNCONSOLIDATED	10.0	0.0	
573.0	CARBONDALE	CANTON	SHALE	22.0	10.0	
551.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	32.0	FISSILE
549.2	CARBONDALE	SPRINGFIELD	COAL	4.3	33.8	

MAPID: 057EC000439Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 6 QUARTERS/FOOTAGES: SW

QUADRANGLE: BANNER LONGITUDE: -89.986416 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.527955 DATE COLLECTED:

SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 70.2 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	30.0	0.0	
590.0	CARBONDALE	CANTON	SANDY SHALE	21.1	30.0	
568.9	CARBONDALE	ST. DAVID	LIMESTONE	0.9	51.1	"RK"
568.0	CARBONDALE		SHALE	12.0	52.0	
556.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	64.0	FISSILE
554.0	CARBONDALE	SPRINGFIELD	COAL	3.7	66.0	
550.3	CARBONDALE		LIMESTONE	0.5	69.7	"RK"

MAPID: 057EC000465Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 6 QUARTERS/FOOTAGES: 0' S line, 0' W line of NE

QUADRANGLE: BANNER LONGITUDE: -89.981665 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.531619 DATE COLLECTED:

SURFACE ELEVATION (FT.): 605.0 LOGGED (FT.): 73.7 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
605.0			UNCONSOLIDATED	39.0	0.0	
566.0	CARBONDALE	CANTON	SHALE	25.0	39.0	
541.0	CARBONDALE	ST. DAVID	LIMESTONE	4.0	64.0	"RK", "CLOD" LWR 1.75 FT
537.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	68.0	FISSILE
536.0	CARBONDALE	SPRINGFIELD	COAL	4.7	69.0	

MAPID: 057EC000441Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 6 QUARTERS/FOOTAGES: SE

QUADRANGLE: BANNER LONGITUDE: -89.977033 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.52791 DATE COLLECTED:

SURFACE ELEVATION (FT.): 608.0 LOGGED (FT.): 80.7 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
608.0			UNCONSOLIDATED	69.0	0.0	
539.0	CARBONDALE		SHALE	6.0	69.0	
533.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	75.0	FISSILE
532.3	CARBONDALE	SPRINGFIELD	COAL	5.0	75.7	

MAPID: 057EC000395Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 8 QUARTERS/FOOTAGES: NE

QUADRANGLE: BANNER LONGITUDE: -89.958033 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.520557 DATE COLLECTED:

SURFACE ELEVATION (FT.): 556.0 LOGGED (FT.): 37.9 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL-HOLE RECORDS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
556.0			UNCONSOLIDATED	33.0	0.0	
523.0	CARBONDALE	EXCELLO	SHALE	2.8	33.0	DARK
520.2	CARBONDALE	HOUCHIN CREEK	COAL	2.2	35.8	

MAPID: 05722069000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 9 QUARTERS/FOOTAGES: 1600' N line, 40' W line

QUADRANGLE: BANNER LONGITUDE: -89.953097 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.519762 DATE COLLECTED: 8 / 24 / 1977

SURFACE ELEVATION (FT.): 593.0 LOGGED (FT.): 885.0 LOG TYPE: Drillers Log

SOURCE: NORTON, WILLIAM H. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
593.0			UNCONSOLIDATED	74.0	0.0	
519.0	CARBONDALE		BLACK SHALE	4.0	74.0	
515.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	78.0	
514.0	CARBONDALE	PURINGTON	SHALE	61.0	79.0	
453.0	CARBONDALE	OAK GROVE	LIMESTONE	9.0	140.0	7-FT SH PTG
444.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	14.0	149.0	
430.0	CARBONDALE	COLCHESTER	COAL WITH SHALE PARTINGS	10.0	163.0	BS CARBONDALE; 6-FT SH PTG
420.0	SPOON		LIMESTONE	2.0	173.0	
418.0	SPOON		SHALE	2.0	175.0	
416.0	SPOON		SANDSTONE	5.0	177.0	
411.0	SPOON		SHALE	2.0	182.0	
409.0	SPOON		SANDSTONE	6.0	184.0	
403.0	SPOON	WILEY	COAL	2.0	190.0	
401.0	SPOON		SHALE	2.0	192.0	
399.0	SPOON	SEAHORNE LS	LIMESTONE	2.0	194.0	
397.0	SPOON		SHALE	13.0	196.0	
384.0	SPOON		LIMESTONE	1.0	209.0	
383.0	SPOON		SHALE	6.0	210.0	
377.0	SPOON		BLACK SHALE	4.0	216.0	BK.FIS
373.0	SPOON	HERMON	COAL	3.0	220.0	
370.0	SPOON		SHALE	27.0	223.0	
343.0	SPOON		BLACK SHALE	3.0	250.0	FISSILE
340.0	SPOON	ROCK ISLAND	COAL	4.0	253.0	
336.0	SPOON		SHALE	9.0	257.0	BASE OF SPOON
327.0	ABBOTT	BERNADOTTE	SANDSTONE	24.0	266.0	
303.0	ABBOTT		SHALE	6.0	290.0	BASE OF PENNSYLVANIAN
297.0			ROCK	589.0	296.0	MISSISSIPPIAN TO SILURIAN

MAPID: 05701065000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 11 QUARTERS/FOOTAGES: 20' N line, 1270' E line
 QUADRANGLE: BANNER LONGITUDE: -89.900858 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.524262 DATE COLLECTED: 2 / 25 / 1955
 SURFACE ELEVATION (FT.): 443.0 LOGGED (FT.): 42.6 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
443.0			UNCONSOLIDATED	21.0	0.0	
422.0	CARBONDALE	PURINGTON	SHALE	7.0	21.0	
415.0	CARBONDALE	OAK GROVE	LIMESTONE	1.5	28.0	
413.5	CARBONDALE		SHALE	2.5	29.5	DARK
411.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.0	32.0	FISSILE
408.0	CARBONDALE	COLCHESTER	COAL	2.6	35.0	BASE OF CARBONDALE
405.4	SPOON		UNDERCLAY	5.0	37.6	

MAPID: 05701839000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 11 QUARTERS/FOOTAGES: 1340' S line, 0' E line
 QUADRANGLE: BANNER LONGITUDE: -89.896491 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.513662 DATE COLLECTED: 4 / 3 / 1940
 SURFACE ELEVATION (FT.): 442.1 LOGGED (FT.): 43.5 LOG TYPE: Drillers Log
 SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
442.1			UNCONSOLIDATED	14.8	0.0	
427.3	CARBONDALE	PURINGTON	SHALE	12.7	14.8	
414.6	CARBONDALE	OAK GROVE	LIMESTONE	2.3	27.5	"RK", 1.25-FT BK FIS SH PTG
412.3	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.5	29.8	FISSILE
411.8	CARBONDALE	FRANCIS CREEK	SHALE	6.7	30.3	
405.2	CARBONDALE	COLCHESTER	COAL	2.6	36.9	BASE OF CARBONDALE
402.6	SPOON		UNDERCLAY	2.0	39.5	
400.6	SPOON		SANDY SHALE	1.0	41.5	
399.6	SPOON		SANDSTONE	1.0	42.5	

MAPID: 0570184000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 11 QUARTERS/FOOTAGES: SE

QUADRANGLE: BANNER LONGITUDE: -89.901183 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.513533 DATE COLLECTED: 4 / 3 / 1940

SURFACE ELEVATION (FT.): 444.2 LOGGED (FT.): 54.4 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
444.2			UNCONSOLIDATED	16.2	0.0	
428.0	CARBONDALE	PURINGTON	SHALE	2.4	16.2	
425.6	CARBONDALE	OAK GROVE	LIMESTONE	0.5	18.6	
425.1	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.8	19.1	FISSILE
423.4	CARBONDALE	FRANCIS CREEK	SHALE	7.4	20.8	
415.9	CARBONDALE	COLCHESTER	COAL	2.8	28.3	BASE OF CARBONDALE
413.2	SPOON		UNDERCLAY	1.5	31.0	
411.7	SPOON		SANDY SHALE	16.7	32.5	
395.0	SPOON	GREENBUSH	COAL	0.3	49.2	"RASH"
394.7	SPOON		SANDY SHALE	2.8	49.5	
391.9	SPOON	WILEY	COAL	1.6	52.3	
390.3	SPOON		UNDERCLAY	0.5	53.9	

MAPID: 05701841000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 11 QUARTERS/FOOTAGES: 0' N line, 0' W line of SE

QUADRANGLE: BANNER LONGITUDE: -89.905813 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.517115 DATE COLLECTED: 4 / 3 / 1940

SURFACE ELEVATION (FT.): 441.7 LOGGED (FT.): 45.8 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
441.7			UNCONSOLIDATED	16.0	0.0	
425.7	CARBONDALE	PURINGTON	SHALE	19.6	16.0	
406.1	CARBONDALE	OAK GROVE	LIMESTONE	1.8	35.6	"RK"
404.4	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.7	37.3	FISSILE
402.7	CARBONDALE	COLCHESTER	COAL	1.8	39.0	BASE OF CARBONDALE
400.9	SPOON		UNDERCLAY	5.0	40.8	

MAPID: 05701806000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 5E

SECTION: 12

QUARTERS/FOOTAGES: 0' N line, 0' E line

QUADRANGLE: BANNER

LONGITUDE: -89.875385

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.524174

DATE COLLECTED: 3 / 19 / 1940

SURFACE ELEVATION (FT.): 438.9

LOGGED (FT.): 55.6

LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP.

WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
438.9			UNCONSOLIDATED	16.7	0.0	
422.2	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.2	16.7	FISSILE
421.1	CARBONDALE	FRANCIS CREEK	SHALE	10.0	17.8	
411.1	CARBONDALE	COLCHESTER	COAL	2.3	27.8	BASE OF CARBONDALE
408.7	SPOON		UNDERCLAY	2.2	30.2	
406.6	SPOON	BROWNING	SANDSTONE	1.5	32.3	
405.1	SPOON		SHALE	3.8	33.8	
401.2	SPOON	ISABEL	SANDSTONE	4.3	37.7	
396.9	SPOON		SHALE	5.5	42.0	
391.4	SPOON	GREENBUSH	COAL	1.0	47.5	"RASH"
390.4	SPOON		SHALE	4.5	48.5	
385.9	SPOON	WILEY	COAL	1.6	53.0	
384.3	SPOON		UNDERCLAY	1.0	54.6	

MAPID: 05701807000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 5E

SECTION: 12

QUARTERS/FOOTAGES: 1360' N line, 0' E line

QUADRANGLE: BANNER

LONGITUDE: -89.8759

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.520422

DATE COLLECTED: 3 / 20 / 1940

SURFACE ELEVATION (FT.): 433.6

LOGGED (FT.): 59.1

LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP.

WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
433.6			UNCONSOLIDATED	17.3	0.0	
416.3	CARBONDALE	PURINGTON	SHALE	9.8	17.3	
406.5	CARBONDALE	OAK GROVE	LIMESTONE	1.2	27.1	
405.3	CARBONDALE		SHALE	0.3	28.3	
405.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.6	28.6	FISSILE
403.4	CARBONDALE	COLCHESTER	COAL	1.9	30.2	BASE OF CARBONDALE
401.5	SPOON		UNDERCLAY	2.0	32.1	
399.5	SPOON	ISABEL	SANDSTONE	4.0	34.1	
395.5	SPOON		SHALE	13.0	38.1	
382.5	SPOON	GREENBUSH	COAL	0.8	51.1	"RASH"
381.8	SPOON		SHALE	5.2	51.8	
376.6	SPOON	WILEY	COAL	1.6	57.0	
375.0	SPOON		UNDERCLAY	0.5	58.6	

MAPID: 05701808000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 12 QUARTERS/FOOTAGES: 2560' N line, 0' E line
 QUADRANGLE: BANNER LONGITUDE: -89.876352 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.517116 DATE COLLECTED: 3 / 20 / 1940
 SURFACE ELEVATION (FT.): 433.0 LOGGED (FT.): 48.2 LOG TYPE: Drillers Log
 SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
433.0			UNCONSOLIDATED	14.0	0.0	
419.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.5	14.0	FISSILE
417.5	CARBONDALE	COLCHESTER	COAL	1.8	15.5	BASE OF CARBONDALE
415.7	SPOON		UNDERCLAY	4.2	17.3	
411.5	SPOON		SANDY SHALE	20.0	21.5	
391.5	SPOON	GREENBUSH	COAL	0.8	41.5	"RASH"
390.7	SPOON		SHALE	3.8	42.3	
387.0	SPOON	WILEY	COAL	1.7	46.0	
385.3	SPOON		UNDERCLAY	0.5	47.7	

MAPID: 05701809000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 12 QUARTERS/FOOTAGES: 3660' N line, 0' E line
 QUADRANGLE: BANNER LONGITUDE: -89.876766 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.514085 DATE COLLECTED: 3 / 21 / 1940
 SURFACE ELEVATION (FT.): 435.3 LOGGED (FT.): 56.6 LOG TYPE: Drillers Log
 SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
435.3			UNCONSOLIDATED	20.9	0.0	
414.4	CARBONDALE	OAK GROVE	LIMESTONE	1.3	20.9	
413.1	CARBONDALE		SHALE	2.3	22.2	
410.9	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.2	24.4	FISSILE
408.7	CARBONDALE	COLCHESTER	COAL WITH SHALE	2.7	26.6	BS CARBONDALE, 1-IN SLFR BND 1-IN FRM TP
406.0	SPOON		UNDERCLAY	1.5	29.3	
404.5	SPOON		SANDY SHALE	17.3	30.8	
387.2	SPOON	GREENBUSH	COAL	1.0	48.1	"RASH"
386.2	SPOON		SANDY SHALE	5.2	49.1	
381.0	SPOON	WILEY	COAL	1.8	54.3	
379.2	SPOON		UNDERCLAY	0.5	56.1	

MAPID: 05701810000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 12 QUARTERS/FOOTAGES: 0' N line, 1300' E line
 QUADRANGLE: BANNER LONGITUDE: -89.880082 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.524206 DATE COLLECTED: 3 / 22 / 1940
 SURFACE ELEVATION (FT.): 448.3 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log
 SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
448.3			UNCONSOLIDATED	21.0	0.0	
427.3	CARBONDALE	COLCHESTER	COAL	2.3	21.0	BASE OF CARBONDALE
425.0	SPOON		UNDERCLAY	2.0	23.3	
423.0	SPOON		SHALE	4.5	25.3	
418.5	SPOON		SANDSTONE	3.0	29.8	
415.5	SPOON		SANDY SHALE	18.0	32.8	
397.5	SPOON	WILEY	COAL	1.2	50.8	
396.3	SPOON		UNDERCLAY	2.0	52.0	
394.3	SPOON		SHALE	6.0	54.0	

MAPID: 05701812000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 12 QUARTERS/FOOTAGES: 1300' N line, 1460' E line
 QUADRANGLE: BANNER LONGITUDE: -89.881147 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.520627 DATE COLLECTED: 3 / 22 / 1940
 SURFACE ELEVATION (FT.): 432.5 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log
 SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
432.5			UNCONSOLIDATED	10.5	0.0	
422.0	CARBONDALE	OAK GROVE	LIMESTONE	19.2	10.5	"RK", 16.42-FT SH PTG
402.8	CARBONDALE		SHALE	0.3	29.7	
402.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.5	30.0	FISSILE
401.0	CARBONDALE	COLCHESTER	COAL	2.0	31.5	BASE OF CARBONDALE
399.0	SPOON		UNDERCLAY	1.9	33.5	
397.1	SPOON		SANDY SHALE	2.3	35.4	
394.8	SPOON	ISABEL	SANDSTONE	1.4	37.7	
393.4	SPOON		SHALE	16.8	39.1	
376.6	SPOON		SANDSTONE	3.1	55.9	
373.5	SPOON		SHALE	0.9	59.0	
372.6	SPOON	WILEY	COAL	1.1	59.9	
371.5	SPOON		UNDERCLAY	1.8	61.0	
369.7	SPOON		SHALE	7.2	62.8	

MAPID: 05701813000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 12 QUARTERS/FOOTAGES: 2600' N line, 1560' E line

QUADRANGLE: BANNER LONGITUDE: -89.881999 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.517045 DATE COLLECTED: 3 / 22 / 1940

SURFACE ELEVATION (FT.): 432.3 LOGGED (FT.): 55.2 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
432.3			UNCONSOLIDATED	14.5	0.0	
417.8	CARBONDALE	PURINGTON	SHALE	3.5	14.5	
414.3	CARBONDALE	OAK GROVE	LIMESTONE	0.7	18.0	"RK"
413.6	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.5	18.7	FISSILE
412.1	CARBONDALE	FRANCIS CREEK	SHALE	0.8	20.2	
411.4	CARBONDALE	COLCHESTER	COAL	2.0	20.9	BASE OF CARBONDALE
409.4	SPOON		UNDERCLAY	3.3	22.9	
406.0	SPOON		SANDY SHALE	15.3	26.3	
390.8	SPOON	ISABEL	SANDSTONE	6.8	41.5	
384.0	SPOON		SHALE	0.2	48.3	
383.9	SPOON	GREENBUSH	COAL	0.5	48.4	"RASH"
383.4	SPOON		SHALE	4.2	48.9	
379.2	SPOON	WILEY	COAL	1.6	53.1	
377.6	SPOON		UNDERCLAY	0.5	54.7	

MAPID: 05701814000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 12 QUARTERS/FOOTAGES: 3940' N line, 4040' W line

QUADRANGLE: BANNER LONGITUDE: -89.881891 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.513348 DATE COLLECTED: 3 / 22 / 1940

SURFACE ELEVATION (FT.): 433.5 LOGGED (FT.): 59.9 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
433.5			UNCONSOLIDATED	17.3	0.0	
416.2	CARBONDALE	PURINGTON	SHALE	4.5	17.3	
411.7	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.6	21.8	FISSILE
410.1	CARBONDALE	FRANCIS CREEK	SHALE	7.3	23.4	
402.8	CARBONDALE	COLCHESTER	COAL	2.5	30.7	BASE OF CARBONDALE
400.3	SPOON		UNDERCLAY	2.0	33.2	
398.3	SPOON		SHALE	16.6	35.2	SDY UPR 9.83 FT
381.8	SPOON	GREENBUSH	COAL	0.8	51.7	"RASH"
380.9	SPOON		SHALE	1.7	52.6	
379.3	SPOON		SANDSTONE	1.2	54.2	
378.1	SPOON		SHALE	1.9	55.4	
376.2	SPOON	WILEY	COAL	1.6	57.3	
374.6	SPOON		UNDERCLAY	1.0	58.9	

MAPID: 05701815000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 12 QUARTERS/FOOTAGES: 2660' N line, 2620' W line

QUADRANGLE: BANNER LONGITUDE: -89.886951 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.516913 DATE COLLECTED: 3 / 25 / 1940

SURFACE ELEVATION (FT.): 439.4 LOGGED (FT.): 65.2 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
439.4			UNCONSOLIDATED	16.3	0.0	
423.1	CARBONDALE	PURINGTON	SHALE	8.3	16.3	
414.8	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.3	24.6	FISSILE
413.6	CARBONDALE	FRANCIS CREEK	SHALE	7.5	25.8	
406.1	CARBONDALE	COLCHESTER	COAL	2.5	33.3	BASE OF CARBONDALE
403.6	SPOON		UNDERCLAY	1.5	35.8	
402.1	SPOON		SANDY SHALE	25.6	37.3	
376.5	SPOON	WILEY	COAL	1.3	62.9	
375.2	SPOON		UNDERCLAY	1.1	64.2	

MAPID: 05701816000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 12 QUARTERS/FOOTAGES: 1360' S line, 2660' W line

QUADRANGLE: BANNER LONGITUDE: -89.886872 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.513754 DATE COLLECTED: 3 / 25 / 1940

SURFACE ELEVATION (FT.): 434.2 LOGGED (FT.): 52.9 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
434.2			UNCONSOLIDATED	15.5	0.0	
418.7	CARBONDALE	FRANCIS CREEK	SHALE	4.6	15.5	
414.1	CARBONDALE	COLCHESTER	COAL	2.6	20.1	BASE OF CARBONDALE
411.5	SPOON		UNDERCLAY	2.3	22.7	
409.3	SPOON		SHALE	1.9	24.9	
407.4	SPOON	ISABEL	SANDSTONE	1.5	26.8	
405.9	SPOON		SANDY SHALE	15.7	28.3	
390.2	SPOON	GREENBUSH	COAL	0.6	44.0	"RASH"
389.6	SPOON		LIMESTONE	0.3	44.6	"RK"
389.4	SPOON		SHALE	1.4	44.8	
387.9	SPOON		SANDSTONE	2.0	46.3	
385.9	SPOON		SHALE	2.0	48.3	
383.9	SPOON	WILEY	COAL	1.7	50.3	
382.3	SPOON		UNDERCLAY	1.0	51.9	

MAPID: 05701817000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 12 QUARTERS/FOOTAGES: 1360' N line, 2600' W line

QUADRANGLE: BANNER LONGITUDE: -89.886945 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.5205 DATE COLLECTED: 3 / 26 / 1940

SURFACE ELEVATION (FT.): 439.0 LOGGED (FT.): 63.1 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
439.0			UNCONSOLIDATED	14.0	0.0	
425.0	CARBONDALE	PURINGTON	SHALE	4.4	14.0	
420.6	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.1	18.4	FISSILE
419.5	CARBONDALE	FRANCIS CREEK	SHALE	7.9	19.5	
411.6	CARBONDALE	COLCHESTER	COAL	2.2	27.4	BASE OF CARBONDALE
409.4	SPOON		UNDERCLAY	1.8	29.6	
407.6	SPOON		SHALE	5.6	31.4	SDY LWR 1/2
402.0	SPOON		SANDSTONE	3.0	37.0	
399.0	SPOON		SHALE	21.2	40.0	SDY LWR PRT
377.8	SPOON	WILEY	COAL	1.1	61.2	
376.7	SPOON		UNDERCLAY	0.8	62.3	

MAPID: 05701818000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 12 QUARTERS/FOOTAGES: 2700' N line, 1260' W line

QUADRANGLE: BANNER LONGITUDE: -89.891867 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.516837 DATE COLLECTED: 3 / 26 / 1940

SURFACE ELEVATION (FT.): 439.1 LOGGED (FT.): 60.8 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
439.1			UNCONSOLIDATED	18.6	0.0	
420.5	CARBONDALE	PURINGTON	SHALE	4.7	18.6	
415.8	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.7	23.3	FISSILE
414.2	CARBONDALE	FRANCIS CREEK	SHALE	7.8	24.9	
406.3	CARBONDALE	COLCHESTER	COAL	2.4	32.8	BASE OF CARBONDALE
403.9	SPOON		UNDERCLAY	2.6	35.2	
401.3	SPOON		SHALE	15.4	37.8	SDY LWR 2/3
385.9	SPOON		SANDSTONE	3.8	53.2	
382.1	SPOON		SHALE	1.8	57.0	
380.3	SPOON	WILEY	COAL WITH SHALE	1.6	58.8	2-IN SLFR BND
378.8	SPOON		UNDERCLAY	0.5	60.3	

MAPID: 05701819000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 12 QUARTERS/FOOTAGES: 1660' N line, 1240' W line

QUADRANGLE: BANNER LONGITUDE: -89.89188 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.519706 DATE COLLECTED: 3 / 26 / 1940

SURFACE ELEVATION (FT.): 448.1 LOGGED (FT.): 56.4 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
448.1			UNCONSOLIDATED	19.0	0.0	
429.1	SPOON		SHALE	14.8	19.0	
414.3	SPOON		LIMESTONE	2.0	33.8	"RK"
412.3	SPOON		SHALE	16.2	35.8	
396.2	SPOON		BLACK SHALE	1.2	51.9	FISSILE
395.0	SPOON		LIMESTONE	0.3	53.1	"RK"
394.7	SPOON	WILEY	COAL	2.6	53.4	
392.1	SPOON		UNDERCLAY	0.4	56.0	

MAPID: 0570182000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 12 QUARTERS/FOOTAGES: 1340' S line, 1340' W line

QUADRANGLE: BANNER LONGITUDE: -89.891647 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.513681 DATE COLLECTED: 3 / 27 / 1940

SURFACE ELEVATION (FT.): 441.8 LOGGED (FT.): 61.0 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
441.8			UNCONSOLIDATED	20.0	0.0	
421.8	CARBONDALE	PURINGTON	SHALE	6.0	20.0	
415.8	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.3	26.0	FISSILE
414.5	CARBONDALE	FRANCIS CREEK	SHALE	5.3	27.3	
409.1	CARBONDALE	COLCHESTER	COAL	2.6	32.7	BASE OF CARBONDALE
406.6	SPOON		UNDERCLAY	2.2	35.2	
404.4	SPOON		SHALE	2.1	37.4	
402.3	SPOON	BROWNING	SANDSTONE	1.2	39.5	
401.1	SPOON		SANDY SHALE	8.1	40.7	
393.1	SPOON	ISABEL	SANDSTONE	2.2	48.7	
390.9	SPOON		SHALE	0.4	50.9	
390.5	SPOON	GREENBUSH	COAL	1.2	51.3	"RASH"
389.3	SPOON		SHALE	3.3	52.5	
386.0	SPOON		SANDSTONE	2.5	55.8	
383.5	SPOON		SHALE	0.8	58.3	
382.7	SPOON	WILEY	COAL	1.4	59.1	
381.3	SPOON		UNDERCLAY	0.5	60.5	

MAPID: 05701821000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 12 QUARTERS/FOOTAGES: 0' S line, 1360' W line

QUADRANGLE: BANNER LONGITUDE: -89.891651 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.509984 DATE COLLECTED: 3 / 27 / 1940

SURFACE ELEVATION (FT.): 438.2 LOGGED (FT.): 58.8 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
438.2			UNCONSOLIDATED	30.8	0.0	
407.4	CARBONDALE	COLCHESTER	COAL	2.2	30.8	BASE OF CARBONDALE
405.2	SPOON		UNDERCLAY	1.8	33.0	
403.4	SPOON		SANDY SHALE	16.3	34.8	
387.2	SPOON	GREENBUSH	COAL	0.8	51.0	"RASH"
386.4	SPOON		SANDY SHALE	4.1	51.8	
382.3	SPOON	WILEY	COAL	1.4	55.9	
380.9	SPOON		UNDERCLAY	1.4	57.3	

MAPID: 05701822000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 12 QUARTERS/FOOTAGES: 0' S line, 2660' W line

QUADRANGLE: BANNER LONGITUDE: -89.886952 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.510002 DATE COLLECTED: 3 / 27 / 1940

SURFACE ELEVATION (FT.): 435.8 LOGGED (FT.): 52.4 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
435.8			UNCONSOLIDATED	17.5	0.0	
418.3	CARBONDALE	FRANCIS CREEK	SHALE	7.8	17.5	
410.5	CARBONDALE	COLCHESTER	COAL	2.5	25.3	BASE OF CARBONDALE
408.0	SPOON		UNDERCLAY	2.3	27.8	
405.8	SPOON	BROWNING	SANDSTONE	3.1	30.0	
402.7	SPOON		SHALE	3.4	33.1	
399.3	SPOON	ISABEL	SANDSTONE	1.7	36.5	
397.6	SPOON		SHALE	6.3	38.2	
391.4	SPOON		SANDSTONE	0.4	44.4	
391.0	SPOON		SHALE	0.3	44.8	
390.7	SPOON	GREENBUSH	COAL	0.6	45.1	"RASH"
390.1	SPOON		LIMESTONE	3.7	45.7	1.25-FT SH PTG
386.5	SPOON		SHALE	0.9	49.3	
385.5	SPOON	WILEY	COAL	1.5	50.3	
384.0	SPOON		UNDERCLAY	0.7	51.8	

MAPID: 05701823000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 12 QUARTERS/FOOTAGES: 0' S line, 4080' W line

QUADRANGLE: BANNER LONGITUDE: -89.881819 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.510018 DATE COLLECTED: 3 / 27 / 1940

SURFACE ELEVATION (FT.): 432.6 LOGGED (FT.): 50.4 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
432.6			UNCONSOLIDATED	28.9	0.0	
403.7	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.2	28.9	FISSILE
402.5	CARBONDALE	FRANCIS CREEK	SHALE	12.7	30.1	
389.8	CARBONDALE	COLCHESTER	COAL	2.8	42.8	BASE OF CARBONDALE
387.1	SPOON		UNDERCLAY	1.7	45.5	
385.4	SPOON		SHALE	3.2	47.2	SDY LWR 2.33 FT

MAPID: 05701824000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 12 QUARTERS/FOOTAGES: 1340' N line, 2840' W line

QUADRANGLE: BANNER LONGITUDE: -89.886078 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.52055 DATE COLLECTED: 3 / 27 / 1940

SURFACE ELEVATION (FT.): 436.8 LOGGED (FT.): 49.1 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
436.8			UNCONSOLIDATED	18.1	0.0	
418.7	CARBONDALE		SHALE	5.1	18.1	
413.6	CARBONDALE	PLEASANTVIEW	SANDSTONE	1.9	23.2	
411.7	CARBONDALE	PURINGTON	SANDY SHALE	8.3	25.1	
403.4	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.5	33.4	FISSILE
401.9	CARBONDALE	FRANCIS CREEK	SHALE	9.2	34.9	
392.7	CARBONDALE	COLCHESTER	COAL	2.4	44.1	BASE OF CARBONDALE
390.3	SPOON		UNDERCLAY	2.6	46.5	

MAPID: 05701825000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 13 QUARTERS/FOOTAGES: 1240' N line, 1340' W line

QUADRANGLE: BANNER LONGITUDE: -89.891809 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.506562 DATE COLLECTED: 3 / 27 / 1940

SURFACE ELEVATION (FT.): 439.8 LOGGED (FT.): 43.7 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
439.8			UNCONSOLIDATED	19.5	0.0	
420.3	CARBONDALE	PURINGTON	SHALE	9.2	19.5	
411.1	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.0	28.7	FISSILE
410.1	CARBONDALE	FRANCIS CREEK	SHALE	7.0	29.7	
403.1	CARBONDALE	COLCHESTER	COAL	2.7	36.7	BASE OF CARBONDALE
400.5	SPOON		UNDERCLAY	3.5	39.3	
397.0	SPOON		SANDSTONE	0.8	42.8	

MAPID: 05701826000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 13 QUARTERS/FOOTAGES: 2580' N line, 2680' W line

QUADRANGLE: BANNER LONGITUDE: -89.887057 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.50288 DATE COLLECTED: 3 / 29 / 1940

SURFACE ELEVATION (FT.): 434.6 LOGGED (FT.): 63.1 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
434.6			UNCONSOLIDATED	13.0	0.0	
421.6	CARBONDALE	FRANCIS CREEK	SHALE	18.5	13.0	
403.1	CARBONDALE	COLCHESTER	COAL	2.1	31.5	BASE OF CARBONDALE
401.0	SPOON		UNDERCLAY	3.8	33.6	
397.2	SPOON		SANDY SHALE	14.8	37.4	
382.4	SPOON	GREENBUSH	COAL	0.8	52.2	"RASH"
381.6	SPOON		SHALE	3.4	53.0	
378.2	SPOON		SANDSTONE	1.7	56.4	
376.5	SPOON		SHALE	2.2	58.1	
374.3	SPOON	WILEY	COAL	1.8	60.3	
372.5	SPOON		UNDERCLAY	1.0	62.1	

MAPID: 05701827000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 13 QUARTERS/FOOTAGES: 2660' N line, 1340' W line

QUADRANGLE: BANNER LONGITUDE: -89.891906 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.502644 DATE COLLECTED: 3 / 29 / 1940

SURFACE ELEVATION (FT.): 439.5 LOGGED (FT.): 54.0 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
439.5			UNCONSOLIDATED	27.1	0.0	
412.4	CARBONDALE	PURINGTON	SHALE	3.3	27.1	
409.2	CARBONDALE	OAK GROVE	LIMESTONE	1.0	30.3	"SOFT RK"
408.2	CARBONDALE		SANDY SHALE	17.1	31.3	
391.1	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.8	48.4	FISSILE
390.3	CARBONDALE	FRANCIS CREEK	SHALE	0.1	49.2	
390.3	CARBONDALE	COLCHESTER	COAL	1.6	49.2	BASE OF CARBONDALE
388.7	SPOON		UNDERCLAY	1.0	50.8	
387.7	SPOON		SANDY SHALE	2.2	51.8	

MAPID: 05701829000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 13 QUARTERS/FOOTAGES: 1340' S line, 1340' W line

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.892003 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.498681 DATE COLLECTED: 3 / 28 / 1940

SURFACE ELEVATION (FT.): 440.2 LOGGED (FT.): 47.5 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.2			UNCONSOLIDATED	33.3	0.0	
406.9	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.6	33.3	FISSILE
406.4	CARBONDALE	FRANCIS CREEK	SHALE	5.9	33.8	
400.4	CARBONDALE	COLCHESTER	COAL	2.8	39.8	BS CARBONDALE,3-IN SLFR BND
397.7	SPOON		UNDERCLAY	1.5	42.5	
396.2	SPOON		SHALE	3.5	44.0	SDY LWR 2.33 FT

MAPID: 05701832000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 13 QUARTERS/FOOTAGES: 1260' S line, 0' W line

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.896853 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.498494 DATE COLLECTED: 4 / 1 / 1940

SURFACE ELEVATION (FT.): 440.8 LOGGED (FT.): 63.8 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.8			UNCONSOLIDATED	29.1	0.0	
411.7	CARBONDALE	OAK GROVE	LIMESTONE	1.5	29.1	"RK"
410.2	CARBONDALE		SHALE	16.3	30.6	
393.9	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	46.9	FISSILE
391.9	CARBONDALE	FRANCIS CREEK	SHALE	11.3	48.9	
380.6	CARBONDALE	COLCHESTER	COAL	2.4	60.2	BASE OF CARBONDALE
378.2	SPOON		SANDY SHALE	1.2	62.6	

MAPID: 05701833000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 13 QUARTERS/FOOTAGES: 2700' N line, 0' W line

QUADRANGLE: BANNER LONGITUDE: -89.896753 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.502514 DATE COLLECTED: 4 / 1 / 1940

SURFACE ELEVATION (FT.): 441.6 LOGGED (FT.): 45.9 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
441.6			UNCONSOLIDATED	22.0	0.0	
419.6	CARBONDALE	PURINGTON	SHALE	12.9	22.0	SDY LWR 1/3
406.7	CARBONDALE	OAK GROVE	LIMESTONE	1.8	34.9	
404.9	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.3	36.7	FISSILE
403.7	CARBONDALE	COLCHESTER	COAL	1.5	37.9	BASE OF CARBONDALE
402.2	SPOON		UNDERCLAY	1.5	39.4	
400.7	SPOON		SANDY SHALE	5.0	40.9	

MAPID: 05701834000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 13 QUARTERS/FOOTAGES: 1240' N line, 0' W line

QUADRANGLE: BANNER LONGITUDE: -89.896653 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.506543 DATE COLLECTED: 4 / 2 / 1940

SURFACE ELEVATION (FT.): 440.7 LOGGED (FT.): 53.1 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.7			UNCONSOLIDATED	18.7	0.0	
422.0	CARBONDALE	PURINGTON	SHALE	8.3	18.7	
413.8	CARBONDALE	OAK GROVE	LIMESTONE	17.7	26.9	"RK", 15.5-FT SH PTG
396.1	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.6	44.6	FISSILE
394.5	CARBONDALE	COLCHESTER	COAL	1.9	46.2	BASE OF CARBONDALE
392.6	SPOON		UNDERCLAY	1.5	48.1	
391.1	SPOON		SHALE	3.5	49.6	

MAPID: 05701835000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 5E

SECTION: 13

QUARTERS/FOOTAGES: 0' N line, 0' W line

QUADRANGLE: BANNER

LONGITUDE: -89.896568

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.509965

DATE COLLECTED: 4 / 2 / 1940

SURFACE ELEVATION (FT.): 441.5

LOGGED (FT.): 55.4

LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP.

WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
441.5			UNCONSOLIDATED	20.9	0.0	
420.6	CARBONDALE	PURINGTON	SHALE	5.8	20.9	
414.7	CARBONDALE	OAK GROVE	LIMESTONE	1.3	26.8	"RK"
413.4	CARBONDALE		SHALE	15.0	28.1	
398.4	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.6	43.1	FISSILE
396.8	CARBONDALE	FRANCIS CREEK	SHALE	4.8	44.7	
392.0	CARBONDALE	COLCHESTER	COAL	2.3	49.5	BASE OF CARBONDALE
389.7	SPOON		UNDERCLAY	1.8	51.8	
387.9	SPOON		SHALE	1.8	53.6	SDY LWR 10 IN

MAPID: 05701124000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 6N 5E

SECTION: 14

QUARTERS/FOOTAGES: NW NW NE SW

QUADRANGLE: BANNER

LONGITUDE: -89.910167

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.501978

DATE COLLECTED: 3 / 10 / 1958

SURFACE ELEVATION (FT.): 440.0

LOGGED (FT.): 545.0

LOG TYPE: Nuclear Log

SOURCE: CENTRAL ILLINOIS LIGHT CO.

WELL TYPE: Coal Test

COMMENT: 4,7,5

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0			UNCONSOLIDATED	15.0	0.0	
425.0	CARBONDALE		ROCK	4.5	15.0	
420.5	CARBONDALE	LOWELL	COAL	1.0	19.5	
419.5	CARBONDALE		ROCK	24.0	20.5	
395.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.5	44.5	FISSILE
393.0	CARBONDALE		ROCK	9.5	47.0	
383.5	CARBONDALE	COLCHESTER	COAL	3.0	56.5	BASE OF CARBONDALE
380.5	SPOON		ROCK	40.5	59.5	
340.0	SPOON	WILEY	COAL	1.0	100.0	
339.0	SPOON		ROCK	30.5	101.0	
308.5	SPOON		SANDSTONE	15.5	131.5	
293.0	SPOON		ROCK	15.0	147.0	
278.0	SPOON	HERMON	COAL	2.0	162.0	SPLIT
276.0	SPOON		ROCK	4.0	164.0	
272.0	SPOON		BLACK SHALE	2.0	168.0	FISSILE
270.0	SPOON	ROCK ISLAND	COAL	1.5	170.0	BASE OF SPOON
268.5	ABBOTT		ROCK	6.8	171.5	
261.7	ABBOTT		COAL	1.3	178.3	
260.5	ABBOTT		ROCK	35.5	179.5	
225.0	ABBOTT		BLACK SHALE	2.0	215.0	FISSILE
223.0	ABBOTT		COAL	2.0	217.0	
221.0	ABBOTT		ROCK	2.0	219.0	
219.0	ABBOTT		SANDSTONE	7.0	221.0	
212.0	ABBOTT		ROCK	28.0	228.0	BASE OF PENNSYLVANIAN
184.0			ROCK	289.0	256.0	MISSISSIPPIAN

MAPID: 05701837000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 14 QUARTERS/FOOTAGES: 2600' N line, 1420' E line

QUADRANGLE: BANNER LONGITUDE: -89.90188 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.502759 DATE COLLECTED: 4 / 2 / 1940

SURFACE ELEVATION (FT.): 444.0 LOGGED (FT.): 46.9 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
444.0			UNCONSOLIDATED	23.5	0.0	
420.5	CARBONDALE	BREEZY HILL	LIMESTONE	1.7	23.5	"RK"
418.8	CARBONDALE		SHALE	3.6	25.2	
415.2	CARBONDALE	PLEASANTVIEW	SANDSTONE	1.0	28.8	
414.2	CARBONDALE	PURINGTON	SANDY SHALE	8.1	29.8	
406.2	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.5	37.8	FISSILE
405.7	CARBONDALE	FRANCIS CREEK	SHALE	6.0	38.3	
399.7	CARBONDALE	COLCHESTER	COAL	2.1	44.3	BASE OF CARBONDALE
397.6	SPOON		UNDERCLAY	0.5	46.4	

MAPID: 05701838000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 14 QUARTERS/FOOTAGES: NE

QUADRANGLE: BANNER LONGITUDE: -89.901332 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.506207 DATE COLLECTED: 4 / 2 / 1940

SURFACE ELEVATION (FT.): 442.4 LOGGED (FT.): 63.0 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
442.4			UNCONSOLIDATED	19.4	0.0	
423.0	CARBONDALE	PURINGTON	SHALE	10.3	19.4	
412.6	CARBONDALE	OAK GROVE	LIMESTONE	0.7	29.8	"RK"
412.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.2	30.4	FISSILE
410.8	CARBONDALE	COLCHESTER	COAL	1.8	31.6	BASE OF CARBONDALE
409.1	SPOON		UNDERCLAY	3.0	33.3	
406.1	SPOON		SHALE	7.8	36.3	
398.3	SPOON	GREENBUSH	COAL	0.9	44.1	"RASH"
397.4	SPOON		SANDSTONE	1.3	45.0	
396.1	SPOON		SHALE	2.8	46.3	
393.3	SPOON		SANDSTONE	4.5	49.1	
388.8	SPOON		SHALE	9.4	53.6	

MAPID: 05701609000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 15 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SW
 QUADRANGLE: DUCK ISLAND LONGITUDE: -89.929775 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.494956 DATE COLLECTED: 0 / 0 / 1938
 SURFACE ELEVATION (FT.): 453.0 LOGGED (FT.): 54.6 LOG TYPE: Drillers Log
 SOURCE: SWALLOW, W. C. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
453.0			UNCONSOLIDATED	25.8	0.0	
427.2	CARBONDALE	PURINGTON	SHALE	4.6	25.8	
422.6	CARBONDALE	OAK GROVE	LIMESTONE	17.5	30.4	16.08-FT SH PTG
405.1	CARBONDALE	FRANCIS CREEK	SHALE	2.5	47.9	
402.6	CARBONDALE	COLCHESTER	COAL	1.7	50.4	BASE OF CARBONDALE
400.9	SPOON		UNDERCLAY	2.5	52.1	

MAPID: 05701610000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 15 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SE
 QUADRANGLE: DUCK ISLAND LONGITUDE: -89.920267 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.494979 DATE COLLECTED: 0 / 0 / 1938
 SURFACE ELEVATION (FT.): 443.0 LOGGED (FT.): 22.0 LOG TYPE: Drillers Log
 SOURCE: SWALLOW, W. C. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
443.0			UNCONSOLIDATED	15.0	0.0	
428.0	CARBONDALE	FRANCIS CREEK	SHALE	4.0	15.0	
424.0	CARBONDALE	COLCHESTER	COAL	2.2	19.0	BASE OF CARBONDALE
421.8	SPOON		UNDERCLAY	0.8	21.2	

MAPID: 05700513000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 18 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE
 QUADRANGLE: DUCK ISLAND LONGITUDE: -89.982312 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.495152 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 24.7 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0			UNCONSOLIDATED	19.0	0.0	
581.0	CARBONDALE	SPRINGFIELD	COAL	5.7	19.0	

MAPID: 05701503000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 18 QUARTERS/FOOTAGES: SW

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.98695 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.498825 DATE COLLECTED:

SURFACE ELEVATION (FT.): 603.0 LOGGED (FT.): 46.4 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
603.0			UNCONSOLIDATED	26.0	0.0	
577.0	CARBONDALE		SHALE	3.0	26.0	
574.0	CARBONDALE		SANDSTONE	11.4	29.0	
562.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	40.4	FISSILE
560.6	CARBONDALE	SPRINGFIELD	COAL	4.0	42.4	

MAPID: 05700515000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 19 QUARTERS/FOOTAGES: 0' S line, 0' W line

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.99208 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.48067 DATE COLLECTED:

SURFACE ELEVATION (FT.): 614.9 LOGGED (FT.): 67.5 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
614.9			UNCONSOLIDATED	14.0	0.0	
600.9	CARBONDALE	CANTON	SHALE	44.0	14.0	SDY UPR 1/2
556.9	CARBONDALE		SHALE	3.0	58.0	DARK
553.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	61.0	FISSILE
552.6	CARBONDALE	SPRINGFIELD	COAL	5.2	62.3	

MAPID: 05700516000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 19 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.982543 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.480516 DATE COLLECTED:

SURFACE ELEVATION (FT.): 605.1 LOGGED (FT.): 58.2 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
605.1			UNCONSOLIDATED	20.0	0.0	
585.1	CARBONDALE	CANTON	SHALE	31.0	20.0	
554.1	CARBONDALE		BLACK SHALE	1.5	51.0	
552.6	CARBONDALE	SPRINGFIELD	COAL	5.7	52.5	

MAPID: 05700517000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 19 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SW

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.992001 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.484291 DATE COLLECTED:

SURFACE ELEVATION (FT.): 586.4 LOGGED (FT.): 22.2 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
586.4			UNCONSOLIDATED	10.0	0.0	
576.4	CARBONDALE	CANTON	SANDY SHALE	4.0	10.0	
572.4	CARBONDALE		BLACK SHALE	2.5	14.0	
569.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	16.5	FISSILE
568.9	CARBONDALE	SPRINGFIELD	COAL	4.7	17.5	

MAPID: 05700518000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 19 QUARTERS/FOOTAGES: SW

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.987245 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.484233 DATE COLLECTED:

SURFACE ELEVATION (FT.): 610.9 LOGGED (FT.): 49.3 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.9			UNCONSOLIDATED	38.0	0.0	
572.9	CARBONDALE	CANTON	SHALE	3.0	38.0	
569.9	CARBONDALE	ST. DAVID	LIMESTONE	1.0	41.0	"RK"
568.9	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	42.0	FISSILE
566.4	CARBONDALE	SPRINGFIELD	COAL	4.8	44.5	

MAPID: 05700519000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 19 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SE

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.982485 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.484175 DATE COLLECTED:

SURFACE ELEVATION (FT.): 597.4 LOGGED (FT.): 46.7 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
597.4			UNCONSOLIDATED	18.0	0.0	
579.4	CARBONDALE	CANTON	SHALE	22.0	18.0	
557.4	CARBONDALE		BLACK SHALE	1.5	40.0	
555.9	CARBONDALE	SPRINGFIELD	COAL	5.2	41.5	

MAPID: 05700521000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 19 QUARTERS/FOOTAGES: SE

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.977726 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.484117 DATE COLLECTED:

SURFACE ELEVATION (FT.): 599.6 LOGGED (FT.): 56.7 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
599.6			UNCONSOLIDATED	40.0	0.0	
559.6	CARBONDALE	CANTON	SHALE	7.0	40.0	BLUE
552.6	CARBONDALE	ST. DAVID	LIMESTONE	1.0	47.0	"RK"
551.6	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	48.0	FISSILE
548.6	CARBONDALE	SPRINGFIELD	COAL	5.7	51.0	

MAPID: 05700523000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 19 QUARTERS/FOOTAGES: SW NE

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.980026 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.489648 DATE COLLECTED:

SURFACE ELEVATION (FT.): 602.9 LOGGED (FT.): 50.2 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
602.9			UNCONSOLIDATED	33.0	0.0	
569.9	CARBONDALE	ST. DAVID	LIMESTONE	1.3	33.0	"RK"
568.6	CARBONDALE		SHALE	9.7	34.3	
558.9	CARBONDALE	TURNER MINE	BLACK SHALE	0.3	44.0	FISSILE
558.6	CARBONDALE	SPRINGFIELD	COAL	5.8	44.3	

MAPID: 05700524000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 19 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SE NE

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.975304 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.487774 DATE COLLECTED:

SURFACE ELEVATION (FT.): 599.1 LOGGED (FT.): 45.8 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
599.1			UNCONSOLIDATED	40.0	0.0	
559.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	40.0	FISSILE
558.6	CARBONDALE	SPRINGFIELD	COAL	5.3	40.5	

MAPID: 05700525000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 20 QUARTERS/FOOTAGES: 0' S line, 0' W line
 QUADRANGLE: DUCK ISLAND LONGITUDE: -89.973002 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.480364 DATE COLLECTED: 10 / 2 / 1928
 SURFACE ELEVATION (FT.): 587.7 LOGGED (FT.): 56.9 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
587.7			UNCONSOLIDATED	9.0	0.0	
578.7	CARBONDALE	CANTON	SANDY SHALE	39.5	9.0	
539.2	CARBONDALE	ST. DAVID	LIMESTONE	0.6	48.5	"RK"
538.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	49.1	FISSILE
537.3	CARBONDALE	SPRINGFIELD	COAL	6.5	50.4	

MAPID: 05700527000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 20 QUARTERS/FOOTAGES: NW SW
 QUADRANGLE: DUCK ISLAND LONGITUDE: -89.970572 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.485881 DATE COLLECTED: 11 / 27 / 1928
 SURFACE ELEVATION (FT.): 584.2 LOGGED (FT.): 30.0 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
584.2			UNCONSOLIDATED	10.0	0.0	
574.2	CARBONDALE		SANDY SHALE	15.5	10.0	
558.7	CARBONDALE	SPRINGFIELD	COAL	4.5	25.5	

MAPID: 05786612000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 20 QUARTERS/FOOTAGES: 1' S line, 1' E line of SE SE
 QUADRANGLE: DUCK ISLAND LONGITUDE: -89.954006 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.480226 DATE COLLECTED: 6 / 26 / 1941
 SURFACE ELEVATION (FT.): 560.0 LOGGED (FT.): 42.5 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 9 WELL TYPE: Coal Test
 COMMENT: SE CANTON BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.0	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0	
545.0	PLEISTOCENE		CLAY	11.0	15.0	
534.0	CARBONDALE		SHALE	10.0	26.0	
524.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	36.0	
523.0	CARBONDALE	SPRINGFIELD	COAL	5.5	37.0	SOFT

MAPID: 05700531000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 30 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NW

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.987424 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.473287 DATE COLLECTED: 10 / 26 / 1928

SURFACE ELEVATION (FT.): 605.0 LOGGED (FT.): 67.7 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
605.0			UNCONSOLIDATED	49.0	0.0	
556.0	CARBONDALE	CANTON	SHALE	11.0	49.0	
545.0	CARBONDALE		BLACK SHALE	2.0	60.0	
543.0	CARBONDALE	SPRINGFIELD	COAL	5.7	62.0	

MAPID: 05700532000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 30 QUARTERS/FOOTAGES: NW

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.987367 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.47694 DATE COLLECTED: 10 / 27 / 1928

SURFACE ELEVATION (FT.): 605.0 LOGGED (FT.): 68.2 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
605.0			UNCONSOLIDATED	14.0	0.0	
591.0	CARBONDALE		SHALE	19.0	14.0	SDY UPR 1/2
572.0	CARBONDALE		SANDSTONE	6.0	33.0	
566.0	CARBONDALE		SHALE	19.0	39.0	
547.0	CARBONDALE		SANDSTONE	1.5	58.0	
545.5	CARBONDALE		SHALE	1.0	59.5	
544.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	60.5	FISSILE
542.0	CARBONDALE	SPRINGFIELD	COAL	5.2	63.0	

MAPID: 05700533000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 5E SECTION: 30 QUARTERS/FOOTAGES: NE

QUADRANGLE: DUCK ISLAND LONGITUDE: -89.977849 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.476819 DATE COLLECTED: 10 / 27 / 1928

SURFACE ELEVATION (FT.): 592.6 LOGGED (FT.): 68.8 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
592.6			UNCONSOLIDATED	30.0	0.0	
562.6	CARBONDALE	CANTON	SHALE	31.0	30.0	SDY UPR 1/2
531.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	61.0	FISSILE
529.6	CARBONDALE	SPRINGFIELD	COAL	5.8	63.0	

MAPID: 05760197000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 6E SECTION: 6 QUARTERS/FOOTAGES: 2640' S line, 800' W line

QUADRANGLE: GLASFORD LONGITUDE: -89.872448 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.530689 DATE COLLECTED:

SURFACE ELEVATION (FT.): 449.6 LOGGED (FT.): 65.7 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP WELL TYPE: Coal Test

COMMENT: COAL SECTION MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
386.6	CARBONDALE	COLCHESTER	COAL	2.7	63.0	BASE OF CARBONDALE

MAPID: 05760199000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 6E SECTION: 6 QUARTERS/FOOTAGES: 1400' S line, 800' W line

QUADRANGLE: GLASFORD LONGITUDE: -89.87248 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.527267 DATE COLLECTED:

SURFACE ELEVATION (FT.): 447.9 LOGGED (FT.): 60.6 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CORP WELL TYPE: Coal Test

COMMENT: COAL SECTION MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
415.2	CARBONDALE	COLCHESTER	COAL	2.1	32.7	BASE OF CARBONDALE
413.1	SPOON		UNCLASSIFIED	24.2	34.8	
388.9	SPOON	WILEY	COAL	1.6	59.0	

MAPID: 05760200000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 6E SECTION: 6 QUARTERS/FOOTAGES: 0' S line, 900' W line
 QUADRANGLE: GLASFORD LONGITUDE: -89.872148 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.523409 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 431.8 LOGGED (FT.): 43.5 LOG TYPE: Drillers Log
 SOURCE: STONEFORT COAL CORP WELL TYPE: Coal Test
 COMMENT: COAL SECTION MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
418.7	CARBONDALE	COLCHESTER	COAL	2.3	13.1	BASE OF CARBONDALE
416.4	SPOON		UNCLASSIFIED	26.5	15.4	
389.9	SPOON	WILEY	COAL	1.6	41.9	

MAPID: 05760198000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 6E SECTION: 7 QUARTERS/FOOTAGES: 1200' N line, 960' W line
 QUADRANGLE: GLASFORD LONGITUDE: -89.872 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.520093 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 433.2 LOGGED (FT.): 56.1 LOG TYPE: Drillers Log
 SOURCE: STONEFORT COAL CORP WELL TYPE: Coal Test
 COMMENT: COAL SECTION MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
406.6	CARBONDALE	COLCHESTER	COAL	2.3	26.6	BASE OF CARBONDALE
404.3	SPOON		UNCLASSIFIED	25.7	28.9	
378.6	SPOON	WILEY	COAL	1.5	54.6	

MAPID: 05760201000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 6N 6E SECTION: 7 QUARTERS/FOOTAGES: 2660' N line, 960' W line
 QUADRANGLE: GLASFORD LONGITUDE: -89.872084 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.516064 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 439.4 LOGGED (FT.): 61.1 LOG TYPE: Drillers Log
 SOURCE: STONEFORT COAL CORP WELL TYPE: Coal Test
 COMMENT: COAL SECTION MAP 6-119A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
413.1	CARBONDALE	COLCHESTER	COAL	2.2	26.3	BASE OF CARBONDALE
410.9	SPOON		UNCLASSIFIED	31.2	28.5	
379.7	SPOON	WILEY	COAL	1.4	59.7	

MAPID: 05700534000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 1E SECTION: 14 QUARTERS/FOOTAGES: 2607' N line, 795' W line of NE

QUADRANGLE: BLYTON LONGITUDE: -90.355728 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.59098 DATE COLLECTED: 3 / 0 / 1941

SURFACE ELEVATION (FT.): 483.0 LOGGED (FT.): 1005.0 LOG TYPE: Drillers Log

SOURCE: LEE TWP. OIL CO. WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
483.0			UNCONSOLIDATED	100.0	0.0	
383.0	SPOON		SHALE	30.0	100.0	
353.0	SPOON	ROCK ISLAND	COAL	4.0	130.0	BASE OF SPOON
349.0	ABBOTT		SHALE	21.0	134.0	
328.0	ABBOTT		ROCK	45.0	155.0	
283.0	ABBOTT		SHALE	85.0	200.0	BASE OF PENNSYLVANIAN
198.0			ROCK	720.0	285.0	MISSISSIPPIAN + OLDER

MAPID: 05786831000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 7N 1E SECTION: 34 QUARTERS/FOOTAGES: SE SE

QUADRANGLE: BLYTON LONGITUDE: -90.371054 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.541371 DATE COLLECTED: 2 / 3 / 1961

SURFACE ELEVATION (FT.): 619.9 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE C57 WELL TYPE: Coal Test

COMMENT: MARIETTA AREA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
619.9	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0	
614.9	PLEISTOCENE		CLAY	26.0	5.0	
588.9	PLEISTOCENE		CLAY	40.0	31.0	
548.9			GRAY SHALE	8.0	71.0	
540.9			COAL	0.8	79.0	#1?
540.1			UNDERCLAY	3.2	79.8	
536.9			UNKNOWN	7.0	83.0	

MAPID: 05723135000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 1 QUARTERS/FOOTAGES: SE SW SW
 QUADRANGLE: FIATT LONGITUDE: -90.229732 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.611997 DATE COLLECTED: 3 / 1 / 1950
 SURFACE ELEVATION (FT.): 663.1 LOGGED (FT.): 46.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.1			UNCONSOLIDATED	39.8	0.0	
623.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	39.8	FISSILE
622.1	CARBONDALE	SPRINGFIELD	COAL	4.1	41.0	
618.0	CARBONDALE		UNDERCLAY	0.9	45.1	

MAPID: 05723140000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 1 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SE SW
 QUADRANGLE: FIATT LONGITUDE: -90.226243 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.61105 DATE COLLECTED: 0 / 0 / 1950
 SURFACE ELEVATION (FT.): 654.7 LOGGED (FT.): 42.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.7			UNCONSOLIDATED	36.2	0.0	
618.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	36.2	FISSILE
617.7	CARBONDALE	SPRINGFIELD	COAL	3.8	37.0	
613.9	CARBONDALE		UNDERCLAY	1.2	40.8	

MAPID: 05723165000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 1 QUARTERS/FOOTAGES: SW
 QUADRANGLE: FIATT LONGITUDE: -90.228584 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.614689 DATE COLLECTED: 0 / 0 / 1950
 SURFACE ELEVATION (FT.): 666.8 LOGGED (FT.): 48.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.8			UNCONSOLIDATED	26.0	0.0	
640.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	26.0	
640.3	CARBONDALE		SANDSTONE	13.5	26.5	SH
626.8	CARBONDALE		SHALE	2.3	40.0	DARK
624.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	42.3	FISSILE
623.1	CARBONDALE	SPRINGFIELD	COAL	3.8	43.7	
619.3	CARBONDALE		UNDERCLAY	0.5	47.5	

MAPID: 05723173000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 1 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE SE NE SW

QUADRANGLE: FIATT LONGITUDE: -90.223926 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.615523 DATE COLLECTED: 2 / 17 / 1949

SURFACE ELEVATION (FT.): 668.8 LOGGED (FT.): 48.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.8			UNCONSOLIDATED	36.0	0.0	
632.8	CARBONDALE	CANTON	SHALE	4.0	36.0	
628.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	40.0	"CAP ROCK"
628.3	CARBONDALE		SHALE	1.0	40.5	DARK
627.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	41.5	FISSILE
626.3	CARBONDALE	SPRINGFIELD	COAL	4.0	42.5	
622.3	CARBONDALE		UNDERCLAY	1.5	46.5	

MAPID: 05723177000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 1 QUARTERS/FOOTAGES: SE

QUADRANGLE: FIATT LONGITUDE: -90.219264 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.614558 DATE COLLECTED: 12 / 6 / 1948

SURFACE ELEVATION (FT.): 668.3 LOGGED (FT.): 59.7 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.3			UNCONSOLIDATED	30.0	0.0	
638.3	CARBONDALE		SHALE	21.2	30.0	SS
617.1	CARBONDALE		BLACK SHALE	2.0	51.2	
615.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	53.2	FISSILE
614.0	CARBONDALE	SPRINGFIELD	COAL	4.1	54.3	
609.9	CARBONDALE		UNDERCLAY	1.3	58.4	

MAPID: 05723179000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 1 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE SE

QUADRANGLE: FIATT LONGITUDE: -90.2146 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.614492 DATE COLLECTED: 12 / 6 / 1948

SURFACE ELEVATION (FT.): 669.8 LOGGED (FT.): 62.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.8			UNCONSOLIDATED	36.0	0.0	
633.8	CARBONDALE	CANTON	SHALE	16.0	36.0	
617.8	CARBONDALE	ST. DAVID	LIMESTONE	2.0	52.0	"CAP ROCK"
615.8	CARBONDALE		SHALE	2.0	54.0	
613.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	56.0	FISSILE
613.1	CARBONDALE	SPRINGFIELD	COAL	4.3	56.7	
608.8	CARBONDALE		UNDERCLAY	1.0	61.0	

MAPID: 05723189000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 1 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW

QUADRANGLE: FIATT LONGITUDE: -90.233283 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.618365 DATE COLLECTED: 1 / 28 / 1949

SURFACE ELEVATION (FT.): 671.3 LOGGED (FT.): 50.8 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.3			UNCONSOLIDATED	30.0	0.0	
641.3	CARBONDALE	CANTON	SHALE	10.0	30.0	
631.3	CARBONDALE		BLACK SHALE	2.0	40.0	
629.3	CARBONDALE	ST. DAVID	LIMESTONE	1.2	42.0	"HARD ROCK"
628.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	43.2	FISSILE
626.8	CARBONDALE	SPRINGFIELD	COAL	4.3	44.5	
622.5	CARBONDALE		UNDERCLAY	2.0	48.8	

MAPID: 05723191000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 1 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW SW

QUADRANGLE: FIATT LONGITUDE: -90.228604 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.618295 DATE COLLECTED: 2 / 22 / 1950

SURFACE ELEVATION (FT.): 674.7 LOGGED (FT.): 58.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.7			UNCONSOLIDATED	35.0	0.0	
639.7	CARBONDALE		SANDSTONE	14.5	35.0	
625.2	CARBONDALE		SHALE	2.0	49.5	DARK
623.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	51.5	FISSILE
622.2	CARBONDALE	SPRINGFIELD	COAL	4.1	52.5	
618.1	CARBONDALE		UNDERCLAY	1.4	56.6	

MAPID: 05723193000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FIATT LONGITUDE: -90.223929 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.618226 DATE COLLECTED: 11 / 19 / 1948

SURFACE ELEVATION (FT.): 674.4 LOGGED (FT.): 56.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.4			UNCONSOLIDATED	40.0	0.0	
634.4	CARBONDALE		SHALE	6.0	40.0	
628.4	CARBONDALE		SANDSTONE	2.0	46.0	
626.4	CARBONDALE		SHALE	1.0	48.0	
625.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	49.0	FISSILE
623.9	CARBONDALE	SPRINGFIELD	COAL	4.3	50.5	
619.6	CARBONDALE		UNDERCLAY	1.3	54.8	

MAPID: 05723195000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 1 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW SE

QUADRANGLE: FIATT LONGITUDE: -90.21925 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.618155 DATE COLLECTED: 11 / 19 / 1948

SURFACE ELEVATION (FT.): 676.7 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.7			UNCONSOLIDATED	50.0	0.0	
626.7	CARBONDALE		SANDSTONE	7.0	50.0	SH
619.7	CARBONDALE		SHALE	2.0	57.0	DARK
617.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	59.0	FISSILE
616.7	CARBONDALE	SPRINGFIELD	COAL	4.4	60.0	
612.3	CARBONDALE		UNDERCLAY	1.5	64.4	
610.8	CARBONDALE		SHALE	1.1	65.9	

MAPID: 05723198000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 1 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE

QUADRANGLE: FIATT LONGITUDE: -90.214575 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.618087 DATE COLLECTED: 12 / 6 / 1948

SURFACE ELEVATION (FT.): 679.2 LOGGED (FT.): 65.4 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.2			UNCONSOLIDATED	35.0	0.0	
644.2	CARBONDALE		SHALE	24.6	35.0	SS
619.6	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	59.6	FISSILE
619.0	CARBONDALE	SPRINGFIELD	COAL	4.0	60.2	
615.0	CARBONDALE		UNDERCLAY	1.3	64.2	

MAPID: 05723206000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 1 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW
 QUADRANGLE: FIATT LONGITUDE: -90.233317 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.621974 DATE COLLECTED: 1 / 28 / 1949
 SURFACE ELEVATION (FT.): 669.3 LOGGED (FT.): 56.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.3			UNCONSOLIDATED	31.0	0.0	
638.3	CARBONDALE		SHALE	10.0	31.0	
628.3	CARBONDALE		SANDSTONE	3.0	41.0	
625.3	CARBONDALE	CANTON	SHALE	3.0	44.0	
622.3	CARBONDALE	ST. DAVID	LIMESTONE	1.5	47.0	"CAP ROCK"
620.8	CARBONDALE		SHALE	1.0	48.5	DARK
619.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	49.5	FISSILE
618.3	CARBONDALE	SPRINGFIELD	COAL WITH SHALE	3.9	51.0	3-IN CLY PTG
614.4	CARBONDALE		UNDERCLAY	1.1	54.9	

MAPID: 05723208000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 1 QUARTERS/FOOTAGES: NW
 QUADRANGLE: FIATT LONGITUDE: -90.228624 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.621901 DATE COLLECTED: 1 / 26 / 1949
 SURFACE ELEVATION (FT.): 673.7 LOGGED (FT.): 58.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
673.7			UNCONSOLIDATED	42.0	0.0	
631.7	CARBONDALE		SANDSTONE	8.0	42.0	
623.7	CARBONDALE		BLACK SHALE	1.0	50.0	
622.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	51.0	FISSILE
621.4	CARBONDALE	SPRINGFIELD	COAL	4.2	52.3	
617.2	CARBONDALE		UNDERCLAY	1.5	56.5	

MAPID: 05723209000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 1 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE NW

QUADRANGLE: FIATT LONGITUDE: -90.223934 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.621827 DATE COLLECTED: 11 / 19 / 1948

SURFACE ELEVATION (FT.): 678.9 LOGGED (FT.): 77.8 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.9			UNCONSOLIDATED	34.0	0.0	
644.9	CARBONDALE		SANDSTONE	25.6	34.0	SH
619.3	CARBONDALE		BLACK SHALE	2.0	59.6	
617.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	61.6	FISSILE
615.7	CARBONDALE	SPRINGFIELD	COAL	4.0	63.2	
611.7	CARBONDALE		UNDERCLAY	3.0	67.2	
608.7	CARBONDALE		SANDSTONE	5.7	70.2	SH
603.1	CARBONDALE		SANDSTONE	2.0	75.8	

MAPID: 05723211000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 1 QUARTERS/FOOTAGES: NE

QUADRANGLE: FIATT LONGITUDE: -90.219241 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.621753 DATE COLLECTED: 11 / 20 / 1948

SURFACE ELEVATION (FT.): 678.8 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.8			UNCONSOLIDATED	40.0	0.0	
638.8	CARBONDALE		SHALE	20.0	40.0	SS
618.8	CARBONDALE		SHALE	1.4	60.0	DARK
617.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	61.4	FISSILE
616.4	CARBONDALE	SPRINGFIELD	COAL	4.0	62.4	
612.4	CARBONDALE		UNDERCLAY	1.6	66.4	

MAPID: 05723226000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 2E **SECTION:** 1 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: FIATT **LONGITUDE:** -90.22276 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.62451 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 679.6 **LOGGED (FT.):** 59.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
679.6			UNCONSOLIDATED	35.0	0.0
644.6	CARBONDALE	CANTON	SHALE	19.0	35.0
625.6	CARBONDALE	SPRINGFIELD	COAL	3.8	54.0
621.8	CARBONDALE		UNDERCLAY	1.2	57.8

MAPID: 05723235000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 2E **SECTION:** 1 **QUARTERS/FOOTAGES:** 0' N line, 0' W line
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.233352 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.625585 **DATE COLLECTED:** 1 / 28 / 1949
SURFACE ELEVATION (FT.): 668.3 **LOGGED (FT.):** 50.5 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
668.3			UNCONSOLIDATED	40.0	0.0
628.3	CARBONDALE		SANDSTONE	2.0	40.0
626.3	CARBONDALE		BLACK SHALE	3.0	42.0
623.3	CARBONDALE	SPRINGFIELD	COAL	3.5	45.0
619.8	CARBONDALE		UNDERCLAY	2.0	48.5

MAPID: 05723238000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 2E **SECTION:** 1 **QUARTERS/FOOTAGES:** 0' N line, 0' E line of NW NW
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.228644 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.625509 **DATE COLLECTED:** 1 / 26 / 1949
SURFACE ELEVATION (FT.): 678.7 **LOGGED (FT.):** 75.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
678.7			UNCONSOLIDATED	36.0	0.0
642.7	CARBONDALE	CANTON	SHALE	7.0	36.0
635.7	CARBONDALE		BLACK SHALE	3.0	43.0
632.7	CARBONDALE	SPRINGFIELD	COAL	1.0	46.0
631.7	CARBONDALE		UNDERCLAY	5.0	47.0
626.7	CARBONDALE		SHALE	23.0	52.0

MAPID: 05723242000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 1 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NE

QUADRANGLE: FIATT LONGITUDE: -90.219231 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.625354 DATE COLLECTED: 0 / 0 / 1948

SURFACE ELEVATION (FT.): 677.9 LOGGED (FT.): 56.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.9			UNCONSOLIDATED	40.0	0.0	
637.9	CARBONDALE	CANTON	SHALE	10.0	40.0	
627.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	50.0	FISSILE
626.9	CARBONDALE	SPRINGFIELD	COAL	3.3	51.0	
623.6	CARBONDALE		UNDERCLAY	1.7	54.3	

MAPID: 05786845000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 1 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW SW

QUADRANGLE: FIATT LONGITUDE: -90.229754 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.612011 DATE COLLECTED: 3 / 1 / 1950

SURFACE ELEVATION (FT.): 693.1 LOGGED (FT.): 46.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE C418A WELL TYPE: Coal Test

COMMENT: SW FLAMINGS BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.1	PLEISTOCENE		UNCONSOLIDATED	17.0	0.0	
676.1	PLEISTOCENE		CLAY	22.8	17.0	
653.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	39.8	
652.1	CARBONDALE	SPRINGFIELD	COAL	4.1	41.0	WILL LOAD
648.0	CARBONDALE		UNDERCLAY	0.9	45.1	

MAPID: 05786847000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 7N 2E **SECTION:** 1 **QUARTERS/FOOTAGES:** NW NW
QUADRANGLE: FIATT **LONGITUDE:** -90.230975 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.623743 **DATE COLLECTED:** 1 / 26 / 1949
SURFACE ELEVATION (FT.): 703.7 **LOGGED (FT.):** 58.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE C569 **WELL TYPE:** Coal Test
COMMENT: SW FLAMINGO BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.7	PLEISTOCENE		CLAY	6.0	0.0	
697.7	PLEISTOCENE		CLAY	30.0	6.0	
667.7	PLEISTOCENE		CLAY	6.0	36.0	
661.7	CARBONDALE		SANDSTONE	8.0	42.0	HARD
653.7	CARBONDALE		BLACK SHALE	1.0	50.0	
652.7	CARBONDALE		BLACK SHALE	1.3	51.0	
651.4	CARBONDALE	SPRINGFIELD	COAL	4.2	52.3	GOOD
647.2	CARBONDALE		UNDERCLAY	1.5	56.5	

MAPID: 05786850000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 7N 2E **SECTION:** 1 **QUARTERS/FOOTAGES:** 660' S line, 330' W line of SE SE
QUADRANGLE: FIATT **LONGITUDE:** -90.218076 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.612771 **DATE COLLECTED:** 3 / 18 / 1955
SURFACE ELEVATION (FT.): 702.0 **LOGGED (FT.):** 54.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE C448B **WELL TYPE:** Coal Test
COMMENT: SW FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.0	PLEISTOCENE		CLAY	14.0	0.0	
688.0	PLEISTOCENE		SAND & GRAVEL	9.0	14.0	
679.0	PLEISTOCENE		CLAY	20.0	23.0	
659.0	CARBONDALE		SANDY SHALE	2.5	43.0	
656.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	45.5	
655.0	CARBONDALE	SPRINGFIELD	COAL	4.3	47.0	GOOD
650.7	CARBONDALE		UNDERCLAY	2.7	51.3	

MAPID: 05723262000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 2E **SECTION:** 2 **QUARTERS/FOOTAGES:** 0' S line, 0' E line of SW SW SE NE
QUADRANGLE: FIATT **LONGITUDE:** -90.236911 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.618401 **DATE COLLECTED:** 3 / 2 / 1949
SURFACE ELEVATION (FT.): 668.9 **LOGGED (FT.):** 44.7 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
668.9			UNCONSOLIDATED	33.0	0.0
635.9	CARBONDALE		SANDSTONE	4.0	33.0
631.9	CARBONDALE		BLACK SHALE	3.0	37.0
628.9	CARBONDALE	SPRINGFIELD	COAL	3.2	40.0
625.7	CARBONDALE		UNDERCLAY	1.5	43.2

MAPID: 05723276000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 2E **SECTION:** 2 **QUARTERS/FOOTAGES:** 0' N line, 0' W line of NE NW
QUADRANGLE: FIATT **LONGITUDE:** -90.247915 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.625818 **DATE COLLECTED:** 2 / 3 / 1949
SURFACE ELEVATION (FT.): 652.0 **LOGGED (FT.):** 49.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
652.0			UNCONSOLIDATED	32.0	0.0
620.0	CARBONDALE	CANTON	SHALE	13.0	32.0
607.0	CARBONDALE	SPRINGFIELD	COAL	1.5	45.0
605.5	CARBONDALE		UNDERCLAY	2.5	46.5

MAPID: 05723277000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 2E **SECTION:** 2 **QUARTERS/FOOTAGES:** 0' N line, 0' W line of NE NE
QUADRANGLE: FIATT **LONGITUDE:** -90.238205 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.625663 **DATE COLLECTED:** 2 / 1 / 1949
SURFACE ELEVATION (FT.): 664.3 **LOGGED (FT.):** 38.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT: LOCATION FROM CS MAP 6-3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
664.3			UNCONSOLIDATED	30.0	0.0
634.3	CARBONDALE	CANTON	SHALE	3.0	30.0
631.3	CARBONDALE	SPRINGFIELD	COAL	3.5	33.0
627.8	CARBONDALE		UNDERCLAY	1.5	36.5

MAPID: 05786846000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 2 QUARTERS/FOOTAGES: 660' S line, 660' E line of NE SE
 QUADRANGLE: FIATT LONGITUDE: -90.235624 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.616582 DATE COLLECTED: 2 / 23 / 1950
 SURFACE ELEVATION (FT.): 698.3 LOGGED (FT.): 45.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE C491 WELL TYPE: Coal Test
 COMMENT: SW FLAMINGTON BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.3	PLEISTOCENE		CLAY	20.0	0.0	
678.3	PLEISTOCENE		SAND & GRAVEL	10.0	20.0	
668.3	CARBONDALE		SANDSTONE	5.0	30.0	
663.3	CARBONDALE		DARK SHALE	3.0	35.0	
660.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	38.0	
659.5	CARBONDALE	SPRINGFIELD	COAL	4.8	38.8	WILL LOAD
654.7	CARBONDALE		UNDERCLAY	1.4	43.6	

MAPID: 05786848000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 2 QUARTERS/FOOTAGES: 660' S line, 660' E line of NE NE
 QUADRANGLE: FIATT LONGITUDE: -90.235694 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.623819 DATE COLLECTED: 2 / 2 / 1949
 SURFACE ELEVATION (FT.): 696.1 LOGGED (FT.): 40.0 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Coal Test
 COMMENT: SW FLAMINGO BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.1	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
688.1	PLEISTOCENE		SAND/CLAY	9.0	8.0	
679.1	PLEISTOCENE		CLAY	15.0	17.0	
664.1	CARBONDALE		SHALE	3.0	32.0	
661.1	CARBONDALE	SPRINGFIELD	COAL	3.7	35.0	FAIR
657.4	CARBONDALE		UNDERCLAY	2.0	38.7	

MAPID: 05786849000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 2 QUARTERS/FOOTAGES: NW NW

QUADRANGLE: BLYTON LONGITUDE: -90.250321 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.624023 DATE COLLECTED: 2 / 3 / 1949

SURFACE ELEVATION (FT.): 682.0 LOGGED (FT.): 49.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE C611 WELL TYPE: Coal Test

COMMENT: SW FLAMINGO BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.0	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
674.0	PLEISTOCENE		SAND/CLAY	20.0	8.0	
654.0	PLEISTOCENE		CLAY	4.0	28.0	
650.0	CARBONDALE		SHALE	13.0	32.0	SOFT
637.0	CARBONDALE		COAL	1.5	45.0	SOFT
635.5	CARBONDALE		UNDERCLAY	2.5	46.5	

MAPID: 05700536000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 2E SECTION: 22 QUARTERS/FOOTAGES: 500' N line, 0' E line

QUADRANGLE: BLYTON LONGITUDE: -90.252558 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.580924 DATE COLLECTED: 0 / 0 / 1898

SURFACE ELEVATION (FT.): 642.0 LOGGED (FT.): 246.0 LOG TYPE: Drillers Log

SOURCE: DODSON, M. WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
642.0			UNCONSOLIDATED	70.0	0.0	
572.0	SPOON		ROCK	15.0	70.0	
557.0	SPOON		SHALE	40.0	85.0	
517.0	SPOON		SANDSTONE	10.0	125.0	
507.0	SPOON	ROCK ISLAND	COAL	4.0	135.0	BASE OF SPOON
503.0	ABBOTT		SHALE	15.0	139.0	
488.0	ABBOTT	POPE CREEK	COAL	2.0	154.0	
486.0	ABBOTT		SANDSTONE	40.0	156.0	
446.0	ABBOTT		SHALE	20.0	196.0	
426.0	ABBOTT		ROCK	30.0	216.0	"GY MATTER"

MAPID: 05701721000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 1 QUARTERS/FOOTAGES: 990' N line, 660' W line of SW
 QUADRANGLE: CANTON LONGITUDE: -90.118897 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.616163 DATE COLLECTED: 12 / 27 / 1960
 SURFACE ELEVATION (FT.): 741.0 LOGGED (FT.): 51.7 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.0			UNCONSOLIDATED	42.0	0.0	
699.0	CARBONDALE	BRERETON	LIMESTONE	4.8	42.0	
694.2	CARBONDALE	ANNA	BLACK SHALE	1.0	46.8	FISSILE
693.2	CARBONDALE	HERRIN	COAL WITH SHALE	3.8	47.8	2-IN CLY PTG
689.4	CARBONDALE		UNDERCLAY	0.1	51.6	

MAPID: 05701722000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 1 QUARTERS/FOOTAGES: 15' N line, 660' W line of SW
 QUADRANGLE: CANTON LONGITUDE: -90.1189 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.618853 DATE COLLECTED: 12 / 28 / 1960
 SURFACE ELEVATION (FT.): 646.4 LOGGED (FT.): 53.9 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.4			UNCONSOLIDATED	42.5	0.0	
603.9	CARBONDALE	LAWSON	SHALE	6.1	42.5	
597.8	CARBONDALE		SHALE	0.5	48.6	DARK
597.3	CARBONDALE	HERRIN	COAL WITH SHALE	4.2	49.1	3-IN CLY PTG
593.1	CARBONDALE		UNDERCLAY	0.7	53.3	

MAPID: 05701723000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 1 QUARTERS/FOOTAGES: 10' N line, 660' E line of SW
 QUADRANGLE: CANTON LONGITUDE: -90.114098 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.618789 DATE COLLECTED: 12 / 29 / 1960
 SURFACE ELEVATION (FT.): 746.2 LOGGED (FT.): 60.3 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.2			UNCONSOLIDATED	40.0	0.0	
706.2	CARBONDALE	LAWSON	SHALE	15.0	40.0	
691.2	CARBONDALE		SHALE	0.8	55.0	DARK
690.4	CARBONDALE	HERRIN	COAL	4.5	55.8	3-IN CLY PTG

MAPID: 05784235000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.106978

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.622297

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.5 LOGGED (FT.): 74.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 512

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.5			UNKNOWN	70.8	0.0	
674.7	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.8	70.8	
673.9	CARBONDALE	HERRIN	COAL	3.2	71.6	

MAPID: 05784441000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.104583

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.622063

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.3 LOGGED (FT.): 69.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 508

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.3			UNKNOWN	66.2	0.0	
679.1	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.2	66.2	WHITE TOP
678.9	CARBONDALE	HERRIN	COAL	3.5	66.4	

MAPID: 05784442000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.102274

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.622246

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 71.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 60

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0			UNKNOWN	67.1	0.0	
678.9	CARBONDALE	HERRIN	COAL	3.9	67.1	

MAPID: 05784445000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.104623 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.620419 DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.7 LOGGED (FT.): 79.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 507 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.7			UNKNOWN	75.6	0.0	
670.1	CARBONDALE	HERRIN	COAL	3.9	75.6	

MAPID: 05784446000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.106991 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.620489 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.2 LOGGED (FT.): 79.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 513 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.2			UNKNOWN	77.8	0.0	
668.4	CARBONDALE	HERRIN	COAL/SANDSTONE	0.5	77.8	TOP ERODED
667.9	CARBONDALE	HERRIN	COAL	1.6	78.3	

MAPID: 05784447000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.107008 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.618729 DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.1 LOGGED (FT.): 79.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 514 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.1			UNKNOWN	75.2	0.0	
669.9	CARBONDALE	HERRIN	COAL/SANDSTONE	0.5	75.2	TOP ERODED
669.4	CARBONDALE	HERRIN	COAL	3.3	75.7	

MAPID: 05784448000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.104524

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.618665

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.2 LOGGED (FT.): 83.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 506

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.2			UNKNOWN	80.2	0.0	
665.0	CARBONDALE	HERRIN	SANDSTONE/COAL	1.0	80.2	TOP ERODED
664.0	CARBONDALE	HERRIN	COAL	2.7	81.2	

MAPID: 05784449000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.102482

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.618625

DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.0 LOGGED (FT.): 77.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 505

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.0			UNKNOWN	73.2	0.0	
670.8	CARBONDALE	HERRIN	COAL/SANDSTONE	1.3	73.2	TOP ERODED
669.5	CARBONDALE	HERRIN	COAL	2.7	74.5	

MAPID: 05786093000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.102207

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.624911

DATE COLLECTED:

SURFACE ELEVATION (FT.): 751.3 LOGGED (FT.): 75.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 510

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
751.3			UNKNOWN	71.3	0.0	
680.0	CARBONDALE	HERRIN	COAL	3.9	71.3	

MAPID: 05786094000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.102247 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.623239 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 68.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 504 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0			UNKNOWN	64.4	0.0	
682.6	CARBONDALE	HERRIN	COAL	3.9	64.4	

MAPID: 05786095000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.104533 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.623873 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.1 LOGGED (FT.): 68.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 509 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.1			UNKNOWN	64.7	0.0	
682.4	CARBONDALE	HERRIN	COAL	4.0	64.7	

MAPID: 05786096000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.106939 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.624035 DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.7 LOGGED (FT.): 70.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 511 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.7			UNKNOWN	66.2	0.0	
679.5	CARBONDALE	HERRIN	COAL	3.9	66.2	

MAPID: 05785794000C VERSION: 1

PROJECT: NCRFDS00

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.135335 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626023 DATE COLLECTED:

SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 63.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 48 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.0			UNKNOWN	63.6	0.0	NO COAL

MAPID: 05785793000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.140096 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626011 DATE COLLECTED:

SURFACE ELEVATION (FT.): 740.0 LOGGED (FT.): 54.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 46 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.0			UNKNOWN	51.6	0.0	
688.4	CARBONDALE	HERRIN	COAL	3.0	51.6	

MAPID: 05785795000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FIATT LONGITUDE: -90.140176 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.622507 DATE COLLECTED:

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 62.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 45 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.0			UNKNOWN	62.9	0.0	NO COAL

MAPID: 05723287000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 5 QUARTERS/FOOTAGES: 0' S line, 500' E line of NW

QUADRANGLE: FIATT LONGITUDE: -90.190131 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.61865 DATE COLLECTED: 2 / 7 / 1949

SURFACE ELEVATION (FT.): 688.9 LOGGED (FT.): 103.1 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.9			UNCONSOLIDATED	79.0	0.0	
609.9	CARBONDALE		SANDSTONE	18.2	79.0	SH
591.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	97.2	FISSILE
591.2	CARBONDALE	SPRINGFIELD	COAL	4.0	97.7	
587.2	CARBONDALE		UNDERCLAY	1.4	101.7	

MAPID: 05723288000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 5 QUARTERS/FOOTAGES: 0' S line, 500' E line of NE NW

QUADRANGLE: FIATT LONGITUDE: -90.189996 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.622227 DATE COLLECTED: 2 / 8 / 1949

SURFACE ELEVATION (FT.): 694.0 LOGGED (FT.): 109.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.0			UNCONSOLIDATED	76.0	0.0	
618.0	CARBONDALE		SANDSTONE	26.0	76.0	SH
592.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	102.0	FISSILE
591.0	CARBONDALE	SPRINGFIELD	COAL	4.2	103.0	
586.8	CARBONDALE		UNDERCLAY	1.8	107.2	

MAPID: 05723289000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 5 QUARTERS/FOOTAGES: NE

QUADRANGLE: FIATT LONGITUDE: -90.183367 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.622323 DATE COLLECTED: 2 / 9 / 1949

SURFACE ELEVATION (FT.): 693.1 LOGGED (FT.): 102.5 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.1			UNCONSOLIDATED	70.0	0.0	
623.1	CARBONDALE		SHALE	14.0	70.0	
609.1	CARBONDALE		SANDSTONE	7.0	84.0	SH
602.1	CARBONDALE	TURNER MINE	BLACK SHALE	6.0	91.0	FISSILE
596.1	CARBONDALE	SPRINGFIELD	COAL	4.3	97.0	
591.8	CARBONDALE		UNDERCLAY	1.2	101.3	

MAPID: 05723290000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 5 QUARTERS/FOOTAGES: 0' N line, 500' E line of NW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.189865 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.625803 DATE COLLECTED: 2 / 8 / 1949

SURFACE ELEVATION (FT.): 697.1 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.1			UNCONSOLIDATED	59.0	0.0	
638.1	CARBONDALE		SANDSTONE	35.0	59.0	
603.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	94.0	FISSILE
602.1	CARBONDALE	SPRINGFIELD	COAL	4.0	95.0	
598.1	CARBONDALE		UNDERCLAY	1.0	99.0	

MAPID: 05723291000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 5 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.183236 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.625918 DATE COLLECTED: 2 / 8 / 1949

SURFACE ELEVATION (FT.): 700.1 LOGGED (FT.): 104.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.1			UNCONSOLIDATED	70.0	0.0	
630.1	CARBONDALE		SHALE	14.0	70.0	
616.1	CARBONDALE		SANDSTONE	14.0	84.0	SH
602.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.3	98.0	FISSILE
601.8	CARBONDALE	SPRINGFIELD	COAL	4.2	98.3	
597.6	CARBONDALE		UNDERCLAY	1.5	102.5	

MAPID: 05723292000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 6 QUARTERS/FOOTAGES: 0' S line, 250' W line of SE SW

QUADRANGLE: FIATT LONGITUDE: -90.21165 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.611372 DATE COLLECTED: 12 / 11 / 1948

SURFACE ELEVATION (FT.): 659.6 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.6			UNCONSOLIDATED	62.0	0.0	
597.6	CARBONDALE		SHALE	2.0	62.0	
595.6	CARBONDALE	SPRINGFIELD	COAL	1.0	64.0	
594.6	CARBONDALE		UNDERCLAY	3.0	65.0	
591.6	CARBONDALE		SANDSTONE	2.0	68.0	SH

MAPID: 05786595000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 6 QUARTERS/FOOTAGES: 660' S line, 0' E line of NW SW

QUADRANGLE: FIATT LONGITUDE: -90.210444 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.616699 DATE COLLECTED: 12 / 0 / 1948

SURFACE ELEVATION (FT.): 705.7 LOGGED (FT.): 65.3 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE B278 WELL TYPE: Coal Test

COMMENT: SW FLAMINGO BOX 56

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.7	PLEISTOCENE		CLAY	16.0	0.0	
689.7	PLEISTOCENE		CLAY	36.0	16.0	
653.7	PLEISTOCENE		CLAY	6.0	52.0	
647.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	58.0	
646.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	59.0	
645.6	CARBONDALE	SPRINGFIELD	COAL	4.0	60.1	GOOD
641.6	CARBONDALE		UNDERCLAY	1.3	64.1	

MAPID: 05786596000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 6 QUARTERS/FOOTAGES: 660' S line, 0' W line of SE SE

QUADRANGLE: FIATT LONGITUDE: -90.202267 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.613246 DATE COLLECTED: 3 / 28 / 1961

SURFACE ELEVATION (FT.): 693.1 LOGGED (FT.): 63.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE B232 WELL TYPE: Coal Test

COMMENT: SW FAIRVIEW BOX 56

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.1	PLEISTOCENE		CLAY	12.0	0.0	
681.1	PLEISTOCENE		CLAY	20.0	12.0	
661.1	PLEISTOCENE		GRAVEL	4.0	32.0	
657.1	PLEISTOCENE		CLAY	9.0	36.0	
648.1	CARBONDALE		SANDSTONE	6.0	45.0	SOFT
642.1	CARBONDALE		DARK SHALE	2.0	51.0	
640.1	CARBONDALE		SANDSTONE	3.0	53.0	
637.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	56.0	
636.1	CARBONDALE	SPRINGFIELD	COAL	4.4	57.0	GOOD
631.7	CARBONDALE		UNDERCLAY	1.6	61.4	

MAPID: 05723299000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 7 QUARTERS/FOOTAGES: SE

QUADRANGLE: FIATT LONGITUDE: -90.203195 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.600541 DATE COLLECTED: 2 / 20 / 1949

SURFACE ELEVATION (FT.): 683.3 LOGGED (FT.): 62.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.3			UNCONSOLIDATED	48.0	0.0	
635.3	CARBONDALE	SPRINGFIELD	COAL	0.5	48.0	"BLOSSOM"
634.8	CARBONDALE		SANDY SHALE	12.0	48.5	
622.8	CARBONDALE	HOUCHIN CREEK	COAL	0.3	60.5	
622.5	CARBONDALE		UNDERCLAY	1.2	60.8	

MAPID: 05723301000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 7 QUARTERS/FOOTAGES: 0' N line, 330' E line of SE

QUADRANGLE: FIATT LONGITUDE: -90.199547 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.604193 DATE COLLECTED: 2 / 19 / 1942

SURFACE ELEVATION (FT.): 690.8 LOGGED (FT.): 50.8 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.8			UNCONSOLIDATED	43.0	0.0	
647.8	CARBONDALE		SANDSTONE	2.0	43.0	
645.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	45.0	FISSILE
645.2	CARBONDALE	SPRINGFIELD	COAL	4.2	45.6	
641.0	CARBONDALE		UNDERCLAY	1.0	49.8	

MAPID: 05786594000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 7 QUARTERS/FOOTAGES: 10' N line, 10' E line of NE NE

QUADRANGLE: FIATT LONGITUDE: -90.198259 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.611421 DATE COLLECTED: 2 / 19 / 1942

SURFACE ELEVATION (FT.): 690.8 LOGGED (FT.): 50.7 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 117 WELL TYPE: Coal Test

COMMENT: BOX 56

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.8	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0	
678.8	PLEISTOCENE		CLAY	31.0	12.0	
647.8	CARBONDALE		SANDSTONE	2.0	43.0	
645.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	45.0	
645.3	CARBONDALE	SPRINGFIELD	COAL	4.2	45.5	

MAPID: 05723302000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 3E **SECTION:** 8 **QUARTERS/FOOTAGES:** 0' S line, 0' W line of NW SW
QUADRANGLE: FIATT **LONGITUDE:** -90.198417 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.600577 **DATE COLLECTED:** 10 / 14 / 1948
SURFACE ELEVATION (FT.): 683.3 **LOGGED (FT.):** 50.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.3			UNCONSOLIDATED	45.0	0.0	
638.3	CARBONDALE	SPRINGFIELD	COAL	1.3	45.0	ERODED
637.0	CARBONDALE		UNDERCLAY	2.0	46.3	
635.0	CARBONDALE		SANDSTONE	1.7	48.3	

MAPID: 05723303000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 3E **SECTION:** 8 **QUARTERS/FOOTAGES:** SW
QUADRANGLE: FIATT **LONGITUDE:** -90.19361 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.600583 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 684.6 **LOGGED (FT.):** 61.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.6			UNCONSOLIDATED	25.0	0.0	
659.6	CARBONDALE		SANDSTONE	1.0	25.0	
658.6	CARBONDALE	CANTON	SHALE	6.0	26.0	
652.6	CARBONDALE	SPRINGFIELD	COAL	0.3	32.0	
652.3	CARBONDALE		SANDSTONE	2.5	32.3	
649.8	CARBONDALE		SHALE	26.3	34.8	

MAPID: 05723305000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 3E **SECTION:** 8 **QUARTERS/FOOTAGES:** NE SW
QUADRANGLE: FIATT **LONGITUDE:** -90.191167 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.602405 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 674.8 **LOGGED (FT.):** 29.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.8			UNCONSOLIDATED	18.0	0.0	
656.8	CARBONDALE		SANDSTONE	6.0	18.0	SH
650.8	CARBONDALE	SPRINGFIELD	COAL	1.1	24.0	
649.7	CARBONDALE		UNDERCLAY	2.0	25.1	
647.7	CARBONDALE		SANDSTONE	1.9	27.1	

MAPID: 05723309000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 3E **SECTION:** 8 **QUARTERS/FOOTAGES:** 0' N line, 0' E line of NW
QUADRANGLE: FIATT **LONGITUDE:** -90.188561 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.611502 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 702.2 **LOGGED (FT.):** 77.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.2			UNCONSOLIDATED	74.0	0.0	
628.2	CARBONDALE	SPRINGFIELD	COAL	1.0	74.0	ERODED
627.2	CARBONDALE		UNDERCLAY	2.0	75.0	

MAPID: 05786592000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: FULTON **TWP/RNG:** 7N 3E **SECTION:** 8 **QUARTERS/FOOTAGES:** 660' S line, 660' E line of NW SE
QUADRANGLE: FIATT **LONGITUDE:** -90.186338 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.602413 **DATE COLLECTED:** 2 / 27 / 1961
SURFACE ELEVATION (FT.): 694.7 **LOGGED (FT.):** 58.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE B137 **WELL TYPE:** Coal Test
COMMENT: SW FAIRVIEW BOX 56

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.7	PLEISTOCENE		CLAY	16.0	0.0	
678.7	PLEISTOCENE		CLAY	30.0	16.0	
648.7	CARBONDALE		DARK SHALE	4.0	46.0	
644.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	50.0	
643.7	CARBONDALE	SPRINGFIELD	COAL	4.2	51.0	GOOD
639.5	CARBONDALE		UNDERCLAY	2.8	55.2	

MAPID: 05786893000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: FULTON **TWP/RNG:** 7N 3E **SECTION:** 8 **QUARTERS/FOOTAGES:** 660' S line, 660' E line of NE SW
QUADRANGLE: FIATT **LONGITUDE:** -90.191149 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.602408 **DATE COLLECTED:** 10 / 15 / 1948
SURFACE ELEVATION (FT.): 674.8 **LOGGED (FT.):** 29.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE B87 **WELL TYPE:** Coal Test
COMMENT: S OF FAIRVIEW BOX 56

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.8	PLEISTOCENE		CLAY	18.0	0.0	
656.8	CARBONDALE		SANDSTONE/SHALE	6.0	18.0	HARD
650.8	CARBONDALE	SPRINGFIELD	COAL	1.1	24.0	
649.7	CARBONDALE		UNDERCLAY	2.0	25.1	
647.7	CARBONDALE		SANDSTONE	1.9	27.1	

MAPID: 05701889000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 10 QUARTERS/FOOTAGES: 50' N line, 400' E line of SE

QUADRANGLE: FIATT LONGITUDE: -90.142048 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.60418 DATE COLLECTED: 11 / 1 / 1970

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 532.0 LOG TYPE: Drillers Log

SOURCE: NORTON, WILLIAM H., JR. WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.0			UNCONSOLIDATED	150.0	0.0	
580.0	CARBONDALE		SHALE	35.0	150.0	
545.0	CARBONDALE	OAK GROVE	LIMESTONE	15.0	185.0	INTRLAMD W/ SH
530.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	200.0	FISSILE
528.0	CARBONDALE	COLCHESTER	COAL WITH SHALE PARTINGS	13.0	202.0	BS CARBONDALE,9-FT SH PTG
515.0	SPOON		UNDERCLAY	1.0	215.0	
514.0	SPOON		SANDY LIMESTONE	5.0	216.0	
509.0	SPOON		SHALE	29.0	221.0	LIGHT GRAY
480.0	SPOON		BLACK SHALE	2.0	250.0	
478.0	SPOON	WILEY	COAL	2.0	252.0	
476.0	SPOON		GRAY SHALE	6.0	254.0	
470.0	SPOON	GRANGER	SANDSTONE	4.0	260.0	
466.0	SPOON	HERMON	COAL	2.0	264.0	
464.0	SPOON		BLACK SHALE	2.0	266.0	
462.0	SPOON		SHALE	22.0	268.0	SDY,LT GY
440.0	SPOON	ROCK ISLAND	COAL	3.0	290.0	BASE OF SPOON
437.0	SPOON		SANDY SHALE	16.0	293.0	
421.0	SPOON		BLACK SHALE	38.0	309.0	DK GY TO BK
383.0	SPOON		SANDSTONE	13.0	347.0	BS PENNSYLVANIAN;GY,SHY
370.0			LIMESTONE W/ SHALE	172.0	360.0	MISSISSIPPIAN

MAPID: 05760139000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 14 QUARTERS/FOOTAGES: 330' N line, 165' E line of NW NW

QUADRANGLE: FIATT LONGITUDE: -90.136606 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.596098 DATE COLLECTED: 3 / 14 / 1961

SURFACE ELEVATION (FT.): 690.0 LOGGED (FT.): 59.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAEER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.0			UNCONSOLIDATED	55.3	0.0	
634.7	CARBONDALE	SPRINGFIELD	COAL	4.5	55.3	

MAPID: 0576014000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 14 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW SE

QUADRANGLE: FIATT LONGITUDE: -90.12659 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.589587 DATE COLLECTED: 3 / 14 / 1961

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 63.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.0			UNCONSOLIDATED	58.8	0.0	
621.2	CARBONDALE	SPRINGFIELD	COAL	4.7	58.8	

MAPID: 05723314000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 24 QUARTERS/FOOTAGES: 0' S line, 0' E line of SE NE SW

QUADRANGLE: CANTON LONGITUDE: -90.112871 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.571319 DATE COLLECTED: 12 / 12 / 1956

SURFACE ELEVATION (FT.): 645.0 LOGGED (FT.): 149.7 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-53-D

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.0			UNCONSOLIDATED	23.5	0.0	
621.5	CARBONDALE		SHALE	3.0	23.5	
618.5	CARBONDALE		SANDSTONE	6.2	26.5	"SD & GVL"
612.3	CARBONDALE		SHALE	10.1	32.7	
602.2	CARBONDALE		UNDERCLAY	6.3	42.8	
596.0	CARBONDALE		SHALE	16.2	49.0	
579.8	CARBONDALE		SANDSTONE	2.0	65.2	
577.8	CARBONDALE		SHALE	49.6	67.2	
528.2	CARBONDALE		SHALE	8.6	116.8	DARK
519.7	CARBONDALE		LIMESTONE	1.3	125.3	"ROCK"
518.3	CARBONDALE		BLACK SHALE	1.2	126.7	FISSILE
517.2	CARBONDALE	LOWELL	COAL	1.2	127.8	
516.0	CARBONDALE	OAK GROVE	LIMESTONE	1.2	129.0	"ROCK"
514.8	CARBONDALE		SHALE	9.5	130.2	
505.3	CARBONDALE	COLCHESTER	COAL	2.5	139.7	BASE OF CARBONDALE
502.8	SPOON		SHALE	4.4	142.2	
498.4	SPOON		LIMESTONE	3.1	146.6	

MAPID: 05723321000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 24 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE

QUADRANGLE: CANTON LONGITUDE: -90.112972 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.567679 DATE COLLECTED: 12 / 31 / 1955

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 58.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-53-D

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	18.0	0.0	
647.0	CARBONDALE	CANTON	SHALE	28.3	18.0	
618.7	CARBONDALE	ST. DAVID	LIMESTONE	0.8	46.3	"CAP ROCK"
618.0	CARBONDALE		SHALE	1.5	47.0	DARK
616.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	48.5	FISSILE
615.2	CARBONDALE	SPRINGFIELD	COAL	7.2	49.8	
608.0	CARBONDALE		UNDERCLAY	1.0	57.0	

MAPID: 05700539000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 25 QUARTERS/FOOTAGES: NE SE SE SE

QUADRANGLE: CANTON LONGITUDE: -90.104418 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.554581 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 58.3 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	19.0	0.0	
641.0	CARBONDALE		SANDSTONE	2.0	19.0	
639.0	CARBONDALE	CANTON	SHALE	28.7	21.0	
610.3	CARBONDALE	ST. DAVID	LIMESTONE	0.8	49.7	
609.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	50.5	FISSILE
607.5	CARBONDALE	SPRINGFIELD	COAL	4.8	52.5	
602.7	CARBONDALE		UNDERCLAY	1.0	57.3	

MAPID: 05700540000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 25 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SE SE

QUADRANGLE: CANTON LONGITUDE: -90.108534 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.554999 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 36.7 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0			UNCONSOLIDATED	14.0	0.0	
641.0	CARBONDALE	CANTON	SHALE	13.8	14.0	SOAPSTONE,PROB SH,UPR 1/3
627.2	CARBONDALE	ST. DAVID	LIMESTONE	1.0	27.8	
626.2	CARBONDALE	TURNER MINE	BLACK SHALE	2.1	28.8	FISSILE
624.2	CARBONDALE	SPRINGFIELD	COAL	4.8	30.8	
619.3	CARBONDALE		UNDERCLAY	1.0	35.7	

MAPID: 05700541000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 25 QUARTERS/FOOTAGES: NW SW SW SE

QUADRANGLE: CANTON LONGITUDE: -90.112675 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.554509 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 34.6 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			UNCONSOLIDATED	19.0	0.0	
631.0	CARBONDALE		SANDSTONE	2.0	19.0	
629.0	CARBONDALE	CANTON	SANDY SHALE	7.7	21.0	
621.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.2	28.7	FISSILE
621.2	CARBONDALE	SPRINGFIELD	COAL	4.8	28.8	
616.4	CARBONDALE		UNDERCLAY	1.0	33.6	

MAPID: 05723327000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 25 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NW NE

QUADRANGLE: CANTON LONGITUDE: -90.11069 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.564054 DATE COLLECTED: 1 / 13 / 1956

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 48.6 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0			UNCONSOLIDATED	27.3	0.0	
634.7	CARBONDALE	CANTON	SHALE	14.8	27.3	
620.0	CARBONDALE		NO RECORD	0.7	42.0	
619.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.4	42.7	FISSILE
618.9	CARBONDALE	SPRINGFIELD	COAL	5.0	43.1	
613.9	CARBONDALE		UNDERCLAY	0.5	48.1	

MAPID: 05723333000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 25 QUARTERS/FOOTAGES: NE NW NE

QUADRANGLE: CANTON LONGITUDE: -90.109448 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.566778 DATE COLLECTED: 2 / 8 / 1956

SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 46.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0			UNCONSOLIDATED	23.7	0.0	
631.3	CARBONDALE	CANTON	SHALE	12.6	23.7	
618.7	CARBONDALE		SHALE	1.4	36.3	DARK
617.3	CARBONDALE	ST. DAVID	LIMESTONE	0.7	37.7	"CAP ROCK"
616.7	CARBONDALE		SHALE	1.8	38.3	DARK
614.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	40.1	FISSILE
613.8	CARBONDALE	SPRINGFIELD	COAL	4.8	41.2	

MAPID: 05700542000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 27 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW NW
 QUADRANGLE: FIATT LONGITUDE: -90.160845 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.563856 DATE COLLECTED: 0 / 0 / 1935
 SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 26.8 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	21.7	0.0	
648.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	21.7	FISSILE
647.6	CARBONDALE	SPRINGFIELD	COAL	4.4	22.4	

MAPID: 05700544000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 27 QUARTERS/FOOTAGES: 0' N line, 330' W line of SE NW
 QUADRANGLE: FIATT LONGITUDE: -90.154862 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.563878 DATE COLLECTED: 0 / 0 / 1935
 SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 35.3 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	22.7	0.0	
647.3	CARBONDALE	SPRINGFIELD	COAL	0.3	22.7	ERODED
647.1	CARBONDALE		SHALE	12.4	22.9	

MAPID: 05700553000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 27 QUARTERS/FOOTAGES: 0' S line, 330' W line of SE NW
 QUADRANGLE: FIATT LONGITUDE: -90.154958 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.560246 DATE COLLECTED: 0 / 0 / 1935
 SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 20.4 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	12.8	0.0	
652.2	CARBONDALE	SPRINGFIELD	COAL	3.2	12.8	
649.1	CARBONDALE		UNDERCLAY	1.1	15.9	
648.0	CARBONDALE		SHALE	3.4	17.0	

MAPID: 05700555000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 7N 3E

SECTION: 27

QUARTERS/FOOTAGES: 0' S line, 100' W line of SW NW

QUADRANGLE: FIATT

LONGITUDE: -90.160572

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.56024

DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 670.0

LOGGED (FT.): 23.2

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
670.0			UNCONSOLIDATED	18.5	0.0
651.5	CARBONDALE	SPRINGFIELD	COAL	4.2	18.5
647.3	CARBONDALE		UNDERCLAY	0.5	22.7

MAPID: 05700556000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 28 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NE NE

QUADRANGLE: FIATT LONGITUDE: -90.163237 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.563857 DATE COLLECTED:

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 295.1 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	45.0	0.0	
625.0	CARBONDALE		SHALE	60.0	45.0	
565.0	CARBONDALE		BLACK SHALE	15.0	105.0	"BK MUD"
550.0	CARBONDALE		ROCK	8.0	120.0	
542.0	CARBONDALE	OAK GROVE	LIMESTONE	1.8	128.0	"CAP ROCK"
540.2	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.5	129.8	FISSILE
537.7	CARBONDALE	COLCHESTER	COAL	1.8	132.3	BASE OF CARBONDALE
535.8	SPOON		UNDERCLAY	0.5	134.2	
535.3	SPOON		ROCK	3.0	134.7	
532.3	SPOON		SHALE	30.0	137.7	
502.3	SPOON		SANDSTONE	28.0	167.7	
474.3	SPOON		BLACK SHALE	1.0	195.7	FISSILE
473.3	SPOON		ROCK	3.0	196.7	
470.3	SPOON		BLACK SHALE	0.5	199.7	FISSILE
469.8	SPOON		SANDSTONE	8.6	200.2	
461.3	SPOON		BLACK SHALE	0.5	208.7	FISSILE
460.8	SPOON		SANDSTONE	1.5	209.2	
459.3	SPOON		BLACK SHALE	2.3	210.7	BK,FIS,CTNS SOME LS?
457.0	SPOON	SEVILLE	LIMESTONE	0.6	213.0	"CLOD"
456.4	SPOON	ROCK ISLAND	COAL	1.7	213.6	
454.7	SPOON		UNDERCLAY	0.5	215.3	BASE OF SPOON
454.2	ABBOTT		SANDSTONE	2.5	215.8	
451.7	ABBOTT		SHALE	3.7	218.3	
448.1	ABBOTT		SANDSTONE	10.0	221.9	SHY
438.1	ABBOTT		SHALE	3.0	231.9	
435.1	ABBOTT		SANDSTONE	12.0	234.9	
423.1	ABBOTT		SHALE	5.0	246.9	
418.1	ABBOTT		SANDSTONE	5.2	251.9	
412.9	ABBOTT		SANDSTONE	17.0	257.1	SHY
395.9	ABBOTT		SHALE	3.0	274.1	
392.9	ABBOTT		SANDSTONE	18.0	277.1	

MAPID: 05700557000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 28 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SE NE

QUADRANGLE: FIATT LONGITUDE: -90.163325 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.560236 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 31.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	21.1	0.0	
648.9	CARBONDALE		SANDSTONE	0.9	21.1	
648.0	CARBONDALE	CANTON	SHALE	2.9	22.0	
645.1	CARBONDALE	ST. DAVID	LIMESTONE	0.7	24.9	"DK CLOD"
644.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	25.6	FISSILE
643.4	CARBONDALE	SPRINGFIELD	COAL	4.9	26.6	

MAPID: 05700561000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 28 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NE NE

QUADRANGLE: FIATT LONGITUDE: -90.163148 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.567477 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 35.7 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	25.0	0.0	
640.0	CARBONDALE	CANTON	SHALE	8.1	25.0	
631.9	CARBONDALE	SPRINGFIELD	COAL/SANDSTONE	0.7	33.1	
631.2	CARBONDALE		UNDERCLAY	0.4	33.8	
630.8	CARBONDALE		SHALE	1.5	34.2	

MAPID: 05700565000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 28 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SE

QUADRANGLE: FIATT LONGITUDE: -90.170583 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.556592 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 29.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.0			UNCONSOLIDATED	21.3	0.0	
653.7	CARBONDALE		SANDSTONE	0.6	21.3	
653.2	CARBONDALE	CANTON	SHALE	1.0	21.8	
652.2	CARBONDALE	ST. DAVID	LIMESTONE	0.7	22.8	"DK CLOD"
651.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	23.5	FISSILE
650.5	CARBONDALE	SPRINGFIELD	COAL	4.5	24.5	
646.0	CARBONDALE		UNDERCLAY	0.8	29.0	

MAPID: 05701545000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 28 QUARTERS/FOOTAGES: 1116' S line, 1896' E line

QUADRANGLE: FIATT LONGITUDE: -90.167894 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.556053 DATE COLLECTED: 2 / 17 / 1935

SURFACE ELEVATION (FT.): 681.0 LOGGED (FT.): 249.4 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: COMBINED WITH COUNTY # 567

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.0			UNCONSOLIDATED	18.0	0.0	
663.0	CARBONDALE		SANDSTONE	14.7	18.0	
648.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	32.7	FISSILE
646.3	CARBONDALE	SPRINGFIELD	COAL	4.8	34.7	
641.6	CARBONDALE		UNDERCLAY	2.0	39.4	REST FROM #567
639.6	CARBONDALE		LIMESTONE	1.5	41.4	"HD ROCK"
638.1	CARBONDALE		SHALE	12.3	42.9	
625.8	CARBONDALE		SANDSTONE	10.0	55.2	
615.8	CARBONDALE		SHALE	11.0	65.2	
604.8	CARBONDALE		SANDSTONE	45.3	76.2	SHY
559.6	CARBONDALE		SANDSTONE	14.5	121.4	
545.1	CARBONDALE		SHALE	0.5	135.9	
544.6	CARBONDALE		BLACK SHALE	0.7	136.4	FISSILE
543.9	CARBONDALE		SANDSTONE	3.5	137.1	
540.4	CARBONDALE		SHALE	4.0	140.6	"SOAPSTONE"
536.4	CARBONDALE		SANDSTONE	1.3	144.6	
535.2	CARBONDALE	COLCHESTER	COAL	0.8	145.8	BASE OF CARBONDALE
534.3	SPOON		UNDERCLAY	2.5	146.7	
531.8	SPOON		SANDSTONE	2.0	149.2	
529.8	SPOON		SHALE	17.5	151.2	
512.3	SPOON		SANDSTONE	7.5	168.7	
504.8	SPOON	WILEY	COAL	0.5	176.2	
504.3	SPOON		UNDERCLAY	1.5	176.7	
502.8	SPOON		SANDSTONE	2.0	178.2	
500.8	SPOON		SHALE	7.3	180.2	
493.6	SPOON		SANDSTONE	12.0	187.4	
481.6	SPOON		SHALE	1.0	199.4	
480.6	SPOON		SANDSTONE	9.0	200.4	
471.6	SPOON	HERMON	COAL	0.5	209.4	
471.1	SPOON		SANDSTONE	1.5	209.9	
469.6	SPOON	HERMON	COAL	0.5	211.4	
469.1	SPOON		UNDERCLAY	0.7	211.9	
468.4	SPOON		SANDSTONE	5.0	212.6	
463.4	SPOON		SHALE	8.8	217.6	
454.6	SPOON		SANDSTONE	2.0	226.4	
452.6	SPOON	SEVILLE	LIMESTONE	1.0	228.4	"CLOD"
451.6	SPOON	ROCK ISLAND	COAL	0.5	229.4	
451.1	SPOON		UNDERCLAY	1.0	229.9	BASE OF SPOON
450.1	ABBOTT		SANDSTONE	1.5	230.9	

448.6	ABBOTT	SHALE	3.5	232.4	
445.1	ABBOTT	COAL	1.0	235.9	"CLOD + STK OF COAL"
444.1	ABBOTT	SHALE	7.5	236.9	
436.6	ABBOTT	SANDSTONE	3.5	244.4	
433.1	ABBOTT	COAL	1.0	247.9	"CLOD,STK COAL"
432.1	ABBOTT	UNDERCLAY	0.5	248.9	

MAPID: 05700568000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 3E **SECTION:** 29 **QUARTERS/FOOTAGES:** 204' S line, 2064' E line
QUADRANGLE: FIATT **LONGITUDE:** -90.187681 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.553548 **DATE COLLECTED:** 2 / 16 / 1935
SURFACE ELEVATION (FT.): 684.0 **LOGGED (FT.):** 31.8 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
684.0			UNCONSOLIDATED	18.0	0.0	
666.0	CARBONDALE		SANDSTONE	7.0	18.0	
659.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	25.0	FISSILE
657.0	CARBONDALE	SPRINGFIELD	COAL	4.8	27.0	

MAPID: 05700570000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 3E **SECTION:** 33 **QUARTERS/FOOTAGES:** 0' N line, 0' W line of NE NE
QUADRANGLE: FIATT **LONGITUDE:** -90.165889 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.552982 **DATE COLLECTED:** 2 / 16 / 1935
SURFACE ELEVATION (FT.): 676.0 **LOGGED (FT.):** 42.0 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT	OVERBURDEN	COMMENT
676.0			UNCONSOLIDATED	19.5	0.0	
656.5	CARBONDALE	ST. DAVID	LIMESTONE	1.5	19.5	"DK CLOD"
655.0	CARBONDALE	SPRINGFIELD	COAL	0.8	21.0	
654.2	CARBONDALE		SHALE	3.0	21.8	
651.2	CARBONDALE		SANDSTONE	0.5	24.8	
650.7	CARBONDALE		SHALE	1.0	25.3	
649.7	CARBONDALE		SANDSTONE	8.9	26.3	
640.7	CARBONDALE		SANDY SHALE	6.8	35.3	

MAPID: 05700571000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 33 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE NE

QUADRANGLE: FIATT LONGITUDE: -90.161196 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.549383 DATE COLLECTED: 2 / 16 / 1935

SURFACE ELEVATION (FT.): 668.0 LOGGED (FT.): 26.3 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.0			UNCONSOLIDATED	20.7	0.0	
647.3	CARBONDALE	ST. DAVID	LIMESTONE	0.8	20.7	"DK CLOD"
646.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	21.4	FISSILE
645.6	CARBONDALE	SPRINGFIELD	COAL	3.8	22.4	

MAPID: 05700572000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 33 QUARTERS/FOOTAGES: 0' S line, 0' E line of SE NE

QUADRANGLE: FIATT LONGITUDE: -90.161284 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.545759 DATE COLLECTED: 2 / 17 / 1935

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 40.7 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0			UNCONSOLIDATED	24.2	0.0	
637.8	CARBONDALE	ST. DAVID	LIMESTONE	1.3	24.2	
636.6	CARBONDALE		SHALE	2.0	25.4	
634.6	CARBONDALE		SANDSTONE	3.8	27.4	
630.7	CARBONDALE		SHALE	6.8	31.3	
624.0	CARBONDALE	SPRINGFIELD	COAL	0.0	38.0	"TRACE"
624.0	CARBONDALE		SHALE	2.7	38.0	

MAPID: 05700573000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 33 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NE
 QUADRANGLE: FIATT LONGITUDE: -90.170763 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.549362 DATE COLLECTED: 2 / 20 / 1935
 SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 37.6 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.0			UNCONSOLIDATED	24.9	0.0	
650.1	CARBONDALE		SANDSTONE	3.2	24.9	
646.9	CARBONDALE	ST. DAVID	LIMESTONE	3.8	28.1	"DK CLOD" TOP + BOTTOM 1.67 FT
643.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	31.9	FISSILE
641.6	CARBONDALE	SPRINGFIELD	COAL	4.2	33.4	

MAPID: 05700574000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 33 QUARTERS/FOOTAGES: 0' S line, 0' W line of NE NE
 QUADRANGLE: FIATT LONGITUDE: -90.165981 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.549373 DATE COLLECTED: 2 / 21 / 1935
 SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 29.0 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.0			UNCONSOLIDATED	23.4	0.0	
651.6	CARBONDALE	ST. DAVID	LIMESTONE	0.3	23.4	"CLOD"
651.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	23.7	FISSILE
650.2	CARBONDALE	SPRINGFIELD	COAL	4.3	24.8	

MAPID: 05700575000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 33 QUARTERS/FOOTAGES: 0' N line, 0' W line of NW NE
 QUADRANGLE: FIATT LONGITUDE: -90.170671 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.552958 DATE COLLECTED: 2 / 21 / 1935
 SURFACE ELEVATION (FT.): 674.0 LOGGED (FT.): 28.0 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.0			UNCONSOLIDATED	23.0	0.0	
651.0	CARBONDALE	CANTON	SHALE	0.6	23.0	
650.4	CARBONDALE	ST. DAVID	LIMESTONE	1.2	23.6	"BK CLOD"
649.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	24.8	FISSILE
647.6	CARBONDALE	SPRINGFIELD	COAL	0.6	26.4	
647.0	CARBONDALE		UNDERCLAY	1.0	27.0	

MAPID: 05700576000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 7N 3E

SECTION: 33

QUARTERS/FOOTAGES: 0' N line, 0' E line

QUADRANGLE: FIATT

LONGITUDE: -90.161107

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.553009

DATE COLLECTED: 2 / 22 / 1935

SURFACE ELEVATION (FT.): 674.0

LOGGED (FT.): 30.4

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.0			UNCONSOLIDATED	22.6	0.0	
651.4	CARBONDALE		SANDSTONE	0.8	22.6	
650.6	CARBONDALE	CANTON	SHALE	1.9	23.4	
648.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	25.3	FISSILE
647.6	CARBONDALE	SPRINGFIELD	COAL	4.0	26.4	

MAPID: 05700583000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 7N 3E

SECTION: 34

QUARTERS/FOOTAGES: NW

QUADRANGLE: FIATT

LONGITUDE: -90.156417

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.549368

DATE COLLECTED: 2 / 18 / 1935

SURFACE ELEVATION (FT.): 668.0

LOGGED (FT.): 28.1

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.0			UNCONSOLIDATED	21.3	0.0	
646.7	CARBONDALE	ST. DAVID	LIMESTONE	0.8	21.3	"DK CLOD"
646.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	22.0	FISSILE
644.7	CARBONDALE	SPRINGFIELD	COAL	4.8	23.3	

MAPID: 05700584000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 34 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE NW

QUADRANGLE: FIATT LONGITUDE: -90.151639 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.54935 DATE COLLECTED: 2 / 19 / 1935

SURFACE ELEVATION (FT.): 669.0 LOGGED (FT.): 36.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.0			UNCONSOLIDATED	21.4	0.0	
647.6	CARBONDALE		LIMESTONE	1.6	21.4	
646.0	CARBONDALE	CANTON	SHALE	9.7	23.0	
636.3	CARBONDALE	ST. DAVID	LIMESTONE	1.2	32.7	"DK CLOD"
635.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.4	33.8	FISSILE
634.7	CARBONDALE	SPRINGFIELD	COAL	0.8	34.3	
633.9	CARBONDALE		UNDERCLAY	1.7	35.1	

MAPID: 05700587000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FIATT LONGITUDE: -90.132505 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.545772 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 661.0 LOGGED (FT.): 48.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.0			UNCONSOLIDATED	20.0	0.0	
641.0	CARBONDALE		SANDSTONE	0.6	20.0	
640.4	CARBONDALE	CANTON	SHALE	18.0	20.6	
622.4	CARBONDALE		SANDSTONE	0.8	38.6	
621.6	CARBONDALE		SHALE	2.0	39.4	
619.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	41.4	FISSILE
618.0	CARBONDALE	SPRINGFIELD	COAL	4.3	43.0	
613.7	CARBONDALE		UNDERCLAY	0.7	47.3	

MAPID: 05700588000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 35 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE SW

QUADRANGLE: FIATT LONGITUDE: -90.137322 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.545735 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 67.3 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.0			UNCONSOLIDATED	21.0	0.0	
654.0	CARBONDALE		SHALE	20.8	21.0	
633.2	CARBONDALE		SANDSTONE	0.6	41.8	
632.6	CARBONDALE	CANTON	SHALE	16.8	42.4	
615.8	CARBONDALE		SANDSTONE	0.8	59.2	
615.0	CARBONDALE		SHALE	1.0	60.0	
614.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	61.0	FISSILE
612.3	CARBONDALE	SPRINGFIELD	COAL	4.6	62.7	

MAPID: 05700589000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 35 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW

QUADRANGLE: FIATT LONGITUDE: -90.14214 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.545701 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 668.0 LOGGED (FT.): 53.9 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.0			UNCONSOLIDATED	15.0	0.0	
653.0	CARBONDALE	CANTON	SHALE	30.5	15.0	
622.5	CARBONDALE	ST. DAVID	LIMESTONE	1.3	45.5	
621.2	CARBONDALE		SHALE	1.5	46.8	
619.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	48.3	FISSILE
618.7	CARBONDALE	SPRINGFIELD	COAL WITH SHALE	4.7	49.3	6-IN CLY PTG

MAPID: 05700593000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 35 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE SW

QUADRANGLE: FIATT LONGITUDE: -90.13257 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.542163 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 38.9 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	19.0	0.0	
646.0	CARBONDALE	CANTON	SHALE	10.0	19.0	
636.0	CARBONDALE	ST. DAVID	LIMESTONE	0.6	29.0	
635.4	CARBONDALE	TURNER MINE	BLACK SHALE	3.4	29.6	FISSILE
632.0	CARBONDALE	SPRINGFIELD	COAL	4.9	33.0	
627.1	CARBONDALE		UNDERCLAY	1.0	37.9	

MAPID: 05700595000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 35 QUARTERS/FOOTAGES: SE

QUADRANGLE: FIATT LONGITUDE: -90.127756 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.542202 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 39.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	22.0	0.0	
643.0	CARBONDALE	CANTON	SHALE	8.3	22.0	
634.7	CARBONDALE	ST. DAVID	LIMESTONE	1.2	30.3	
633.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	31.4	FISSILE
631.1	CARBONDALE		SHALE	1.8	33.9	"CL SLIP"
629.2	CARBONDALE	SPRINGFIELD	COAL	3.1	35.8	
626.2	CARBONDALE		UNDERCLAY	1.0	38.8	

MAPID: 05700597000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 35 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE SE

QUADRANGLE: CANTON LONGITUDE: -90.122943 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.542241 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 48.3 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	22.0	0.0	
643.0	CARBONDALE	CANTON	SHALE	18.0	22.0	
625.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	40.0	FISSILE
622.5	CARBONDALE	SPRINGFIELD	COAL	4.8	42.5	"SHELLY"
617.7	CARBONDALE		UNDERCLAY	1.0	47.3	

MAPID: 05700599000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 35 QUARTERS/FOOTAGES: 250' S line, 0' E line

QUADRANGLE: CANTON LONGITUDE: -90.123 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.539327 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 40.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	17.0	0.0	
643.0	CARBONDALE	CANTON	SHALE	12.5	17.0	
630.5	CARBONDALE	ST. DAVID	LIMESTONE	1.3	29.5	
629.2	CARBONDALE	TURNER MINE	BLACK SHALE	3.4	30.8	FISSILE
625.8	CARBONDALE	SPRINGFIELD	COAL	4.8	34.2	
621.0	CARBONDALE		UNDERCLAY	1.0	39.0	

MAPID: 05700601000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 35 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SE

QUADRANGLE: FIATT LONGITUDE: -90.127825 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.538593 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 48.3 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	21.0	0.0	
644.0	CARBONDALE	CANTON	SHALE	19.0	21.0	
625.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	40.0	FISSILE
622.5	CARBONDALE	SPRINGFIELD	COAL	4.8	42.5	
617.7	CARBONDALE		UNDERCLAY	1.0	47.3	

MAPID: 05700604000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 35 QUARTERS/FOOTAGES: 100' S line, 250' E line of SW SE SW

QUADRANGLE: FIATT LONGITUDE: -90.135939 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.538798 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 57.2 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	21.0	0.0	
644.0	CARBONDALE	CANTON	SHALE	27.0	21.0	
617.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	48.0	
616.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	49.0	FISSILE
613.5	CARBONDALE	SPRINGFIELD	COAL	4.7	51.5	
608.8	CARBONDALE		UNDERCLAY	1.0	56.2	

MAPID: 05700605000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 35 QUARTERS/FOOTAGES: 248' S line, 495' E line of SW SW

QUADRANGLE: FIATT LONGITUDE: -90.139222 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.539175 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 58.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	17.0	0.0	
648.0	CARBONDALE	CANTON	SHALE	32.0	17.0	
616.0	CARBONDALE	ST. DAVID	LIMESTONE	0.7	49.0	
615.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.7	49.7	FISSILE
612.7	CARBONDALE		SHALE	0.7	52.3	"CL SLIP"
612.0	CARBONDALE	SPRINGFIELD	COAL	0.8	53.0	
611.2	CARBONDALE		SHALE	3.2	53.8	"CL SLIP"
608.0	CARBONDALE		UNDERCLAY	1.0	57.0	

MAPID: 05700612000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 35 QUARTERS/FOOTAGES: 248' S line, 0' W line of NW SW

QUADRANGLE: FIATT LONGITUDE: -90.142188 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.542768 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 48.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	16.5	0.0	
648.5	CARBONDALE	CANTON	SHALE	22.1	16.5	
626.4	CARBONDALE	ST. DAVID	LIMESTONE	0.5	38.6	
625.9	CARBONDALE	TURNER MINE	BLACK SHALE	3.8	39.1	FISSILE
622.2	CARBONDALE	SPRINGFIELD	COAL	4.9	42.8	
617.2	CARBONDALE		UNDERCLAY	1.0	47.8	

MAPID: 05700619000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 35 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE NW NW

QUADRANGLE: FIATT LONGITUDE: -90.137231 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.551157 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 39.1 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	15.0	0.0	
645.0	CARBONDALE	CANTON	SHALE	14.8	15.0	
630.2	CARBONDALE	ST. DAVID	LIMESTONE	0.6	29.8	
629.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.9	30.4	FISSILE
626.7	CARBONDALE	SPRINGFIELD	COAL	4.8	33.3	
621.9	CARBONDALE		UNDERCLAY	1.0	38.1	

MAPID: 05700621000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 35 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE SE NE NW

QUADRANGLE: FIATT LONGITUDE: -90.132423 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.550286 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 42.7 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	16.0	0.0	
644.0	CARBONDALE	CANTON	SHALE	17.7	16.0	
626.3	CARBONDALE	ST. DAVID	LIMESTONE	0.9	33.7	
625.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	34.6	FISSILE
623.2	CARBONDALE	SPRINGFIELD	COAL	4.8	36.8	
618.3	CARBONDALE		UNDERCLAY	1.0	41.7	

MAPID: 05700627000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 7N 3E

SECTION: 35

QUARTERS/FOOTAGES: SE SE SW NE

QUADRANGLE: FIATT

LONGITUDE: -90.128281

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.546255

DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0

LOGGED (FT.): 53.5

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	20.0	0.0	
645.0	CARBONDALE	CANTON	SHALE	23.0	20.0	
622.0	CARBONDALE	ST. DAVID	LIMESTONE	1.3	43.0	
620.7	CARBONDALE	TURNER MINE	BLACK SHALE	3.3	44.3	FISSILE
617.5	CARBONDALE	SPRINGFIELD	COAL	5.0	47.5	
612.5	CARBONDALE		UNDERCLAY	1.0	52.5	

MAPID: 05700629000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 7N 3E

SECTION: 35

QUARTERS/FOOTAGES: 0' N line, 495' E line of SE SE NE

QUADRANGLE: CANTON

LONGITUDE: -90.124626

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.547635

DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0

LOGGED (FT.): 54.0

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	17.0	0.0	
648.0	CARBONDALE	CANTON	SHALE	26.3	17.0	
621.7	CARBONDALE	ST. DAVID	LIMESTONE	1.3	43.3	
620.4	CARBONDALE	TURNER MINE	BLACK SHALE	3.4	44.6	FISSILE
617.0	CARBONDALE	SPRINGFIELD	COAL	5.0	48.0	
612.0	CARBONDALE		UNDERCLAY	1.0	53.0	

MAPID: 05700633000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 36 QUARTERS/FOOTAGES: 0' N line, 0' E line of NE NW SW

QUADRANGLE: CANTON LONGITUDE: -90.118158 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.545867 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 50.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	17.0	0.0	
648.0	CARBONDALE	CANTON	SHALE	25.0	17.0	
623.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.7	42.0	FISSILE
620.3	CARBONDALE	SPRINGFIELD	COAL	4.8	44.7	
615.5	CARBONDALE		UNDERCLAY	1.0	49.5	

MAPID: 05700635000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 36 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW SW

QUADRANGLE: CANTON LONGITUDE: -90.122905 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.544043 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 43.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	29.0	0.0	
636.0	CARBONDALE	CANTON	SHALE	3.8	29.0	
632.2	CARBONDALE	ST. DAVID	LIMESTONE	1.0	32.8	
631.2	CARBONDALE	TURNER MINE	BLACK SHALE	4.0	33.8	FISSILE
627.2	CARBONDALE	SPRINGFIELD	COAL	5.0	37.8	
622.2	CARBONDALE		UNDERCLAY	1.0	42.8	

MAPID: 05700640000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 36 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SW SW

QUADRANGLE: CANTON LONGITUDE: -90.120661 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.538636 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 43.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	24.0	0.0	
641.0	CARBONDALE	CANTON	SHALE	9.9	24.0	
631.1	CARBONDALE	ST. DAVID	LIMESTONE	1.0	33.9	
630.1	CARBONDALE	TURNER MINE	BLACK SHALE	2.2	34.9	FISSILE
627.9	CARBONDALE	SPRINGFIELD	COAL	4.9	37.1	
623.0	CARBONDALE		UNDERCLAY	1.0	42.0	

MAPID: 05700642000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 36 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SE SW

QUADRANGLE: CANTON LONGITUDE: -90.115953 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.538635 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 64.1 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	19.0	0.0	
651.0	CARBONDALE	CANTON	SHALE	35.6	19.0	
615.4	CARBONDALE	ST. DAVID	LIMESTONE	0.9	54.6	
614.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.8	55.5	FISSILE
611.7	CARBONDALE	SPRINGFIELD	COAL	4.8	58.3	
606.9	CARBONDALE		UNDERCLAY	1.0	63.1	

MAPID: 05700645000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 36 QUARTERS/FOOTAGES: NE

QUADRANGLE: CANTON LONGITUDE: -90.108656 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.549549 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 43.7 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	18.0	0.0	
647.0	CARBONDALE	CANTON	SHALE	16.0	18.0	
631.0	CARBONDALE	ST. DAVID	LIMESTONE	0.8	34.0	
630.2	CARBONDALE	TURNER MINE	BLACK SHALE	3.3	34.8	FISSILE
627.0	CARBONDALE	SPRINGFIELD	COAL	4.0	38.0	
623.0	CARBONDALE		UNDERCLAY	1.7	42.0	

MAPID: 05700646000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 36 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NE

QUADRANGLE: CANTON LONGITUDE: -90.103944 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.549581 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 47.7 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	24.0	0.0	
641.0	CARBONDALE	CANTON	SHALE	13.3	24.0	
627.7	CARBONDALE	ST. DAVID	LIMESTONE	1.2	37.3	
626.5	CARBONDALE	TURNER MINE	BLACK SHALE	3.1	38.5	FISSILE
623.4	CARBONDALE	SPRINGFIELD	COAL	5.1	41.6	
618.3	CARBONDALE		UNDERCLAY	1.0	46.7	

MAPID: 05700648000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 36 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NE
QUADRANGLE: CANTON LONGITUDE: -90.108736 GEOLOGIST: TRASK,CB
CONFIDENTIAL: N LATITUDE: 40.545912 DATE COLLECTED: 0 / 0 / 1935
SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 79.8 LOG TYPE: Drillers Log
SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.0			UNCONSOLIDATED	18.0	0.0	
662.0	CARBONDALE	CANTON	SHALE	52.5	18.0	SDY NEAR TOP
609.5	CARBONDALE	ST. DAVID	LIMESTONE	1.0	70.5	
608.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	71.5	FISSILE
606.2	CARBONDALE	SPRINGFIELD	COAL	5.0	73.8	
601.2	CARBONDALE		UNDERCLAY	1.0	78.8	

MAPID: 05700650000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 36 QUARTERS/FOOTAGES: 165' S line, 0' W line of NE NE NE
QUADRANGLE: CANTON LONGITUDE: -90.106249 GEOLOGIST: TRASK,CB
CONFIDENTIAL: N LATITUDE: 40.551843 DATE COLLECTED: 0 / 0 / 1935
SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 45.8 LOG TYPE: Drillers Log
SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	20.0	0.0	
640.0	CARBONDALE	CANTON	SHALE	15.5	20.0	
624.5	CARBONDALE	ST. DAVID	LIMESTONE	1.8	35.5	
622.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.8	37.3	FISSILE
620.0	CARBONDALE	SPRINGFIELD	COAL	4.8	40.0	
615.2	CARBONDALE		UNDERCLAY	1.0	44.8	

MAPID: 05700652000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 7N 3E

SECTION: 36

QUARTERS/FOOTAGES: NE NW SE NW

QUADRANGLE: CANTON

LONGITUDE: -90.116327

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.549043

DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 660.0

LOGGED (FT.): 50.1

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	28.0	0.0	
632.0	CARBONDALE	CANTON	SHALE	11.8	28.0	
620.2	CARBONDALE	ST. DAVID	LIMESTONE	1.8	39.8	
618.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.8	41.5	FISSILE
615.7	CARBONDALE	SPRINGFIELD	COAL	4.8	44.3	
610.9	CARBONDALE		UNDERCLAY	1.0	49.1	

MAPID: 05700653000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 7N 3E

SECTION: 36

QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW NW

QUADRANGLE: CANTON

LONGITUDE: -90.12276

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.55125

DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 660.0

LOGGED (FT.): 52.8

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	18.0	0.0	
642.0	CARBONDALE	CANTON	SHALE	25.8	18.0	
616.2	CARBONDALE	ST. DAVID	LIMESTONE	1.4	43.8	
614.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.6	45.2	BK,FIS,LWR 1 FT IS CONC
612.2	CARBONDALE	SPRINGFIELD	COAL	4.0	47.8	
608.2	CARBONDALE		UNDERCLAY	1.0	51.8	

MAPID: 05700655000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 3E SECTION: 36 QUARTERS/FOOTAGES: 248' S line, 0' W line of NE NE NW NW

QUADRANGLE: CANTON LONGITUDE: -90.119193 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.552867 DATE COLLECTED: 0 / 0 / 1935

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 53.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	15.0	0.0	
650.0	CARBONDALE	CANTON	SHALE	27.8	15.0	
622.2	CARBONDALE	ST. DAVID	LIMESTONE	1.9	42.8	
620.3	CARBONDALE	TURNER MINE	BLACK SHALE	3.1	44.7	FISSILE
617.2	CARBONDALE	SPRINGFIELD	COAL	5.0	47.8	
612.2	CARBONDALE		UNDERCLAY	1.0	52.8	

MAPID: 05700949000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 1 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SW

QUADRANGLE: CANTON LONGITUDE: -90.008733 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.615246 DATE COLLECTED: 11 / 7 / 1955

SURFACE ELEVATION (FT.): 697.3 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.3			UNCONSOLIDATED	37.0	0.0	
660.3	MODESTO	FARMINGTON	SHALE	3.0	37.0	
657.3	MODESTO		SHALE	1.5	40.0	B BS MODESTO
655.8	CARBONDALE	DANVILLE	COAL	1.0	41.5	
654.8	CARBONDALE		UNDERCLAY	3.0	42.5	
651.8	CARBONDALE		SANDY SHALE	7.5	45.5	
644.3	CARBONDALE		SANDSTONE	2.5	53.0	
641.8	CARBONDALE		SANDY SHALE	13.5	55.5	
628.3	CARBONDALE		SHALE	2.0	69.0	DARK
626.3	CARBONDALE	ANNA	BLACK SHALE	1.0	71.0	
625.3	CARBONDALE	HERRIN	COAL WITH SHALE	4.8	72.0	4-IN PTG
620.5	CARBONDALE		UNDERCLAY	1.2	76.8	

MAPID: 05700950000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 1 QUARTERS/FOOTAGES: 0' N line, 82' E line of SW SW

QUADRANGLE: CANTON LONGITUDE: -90.004193 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.615179 DATE COLLECTED: 10 / 26 / 1955

SURFACE ELEVATION (FT.): 696.5 LOGGED (FT.): 82.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.5			UNCONSOLIDATED	31.0	0.0	
665.5	MODESTO	FARMINGTON	SHALE	10.0	31.0	B BS MODESTO
655.5	CARBONDALE	DANVILLE	COAL	1.0	41.0	
654.5	CARBONDALE		UNDERCLAY	2.0	42.0	
652.5	CARBONDALE		SANDY SHALE	31.0	44.0	
621.5	CARBONDALE	ANNA	BLACK SHALE	0.3	75.0	
621.2	CARBONDALE	HERRIN	COAL WITH SHALE	4.3	75.3	3-IN CLY BND
616.9	CARBONDALE		UNDERCLAY	2.4	79.6	

MAPID: 05700951000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 1 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SE

QUADRANGLE: BANNER LONGITUDE: -89.999062 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.615104 DATE COLLECTED: 11 / 5 / 1955

SURFACE ELEVATION (FT.): 689.9 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.9			UNCONSOLIDATED	30.0	0.0	
659.9	MODESTO	FARMINGTON	SHALE	1.0	30.0	B BS MODESTO
658.9	CARBONDALE	DANVILLE	COAL	1.0	31.0	
657.9	CARBONDALE		UNDERCLAY	3.0	32.0	
654.9	CARBONDALE		SANDY SHALE	27.5	35.0	
627.4	CARBONDALE	BRERETON	LIMESTONE	3.5	62.5	
623.9	CARBONDALE		SHALE	0.5	66.0	
623.4	CARBONDALE	HERRIN	COAL WITH SHALE	4.5	66.5	1-IN CLY BND
618.9	CARBONDALE		UNDERCLAY	3.0	71.0	

MAPID: 05700952000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 1 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE SW
 QUADRANGLE: CANTON LONGITUDE: -90.003828 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.618757 DATE COLLECTED: 9 / 30 / 1955
 SURFACE ELEVATION (FT.): 672.2 LOGGED (FT.): 78.5 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.2			UNCONSOLIDATED	36.0	0.0	
636.2	MODESTO	FARMINGTON	SHALE	1.5	36.0	
634.7	MODESTO		SHALE	1.0	37.5	B BS MODESTO
633.7	CARBONDALE	DANVILLE	COAL	1.2	38.5	
632.5	CARBONDALE		UNDERCLAY	2.3	39.7	
630.2	CARBONDALE		SANDY SHALE	7.0	42.0	
623.2	CARBONDALE		SANDSTONE	3.0	49.0	
620.2	CARBONDALE		SANDY SHALE	21.0	52.0	
599.2	CARBONDALE	HERRIN	COAL WITH SHALE	4.0	73.0	3-IN PTG
595.2	CARBONDALE		UNDERCLAY	1.5	77.0	

MAPID: 05700953000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 1 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW
 QUADRANGLE: CANTON LONGITUDE: -90.008687 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.618808 DATE COLLECTED: 9 / 29 / 1955
 SURFACE ELEVATION (FT.): 701.9 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.9			UNCONSOLIDATED	30.0	0.0	
671.9	MODESTO	FARMINGTON	SHALE	6.0	30.0	
665.9	MODESTO		SHALE	1.0	36.0	B BS MODESTO
664.9	CARBONDALE	DANVILLE	COAL	1.1	37.0	
663.8	CARBONDALE		UNDERCLAY	2.0	38.1	
661.8	CARBONDALE		SHALE	10.0	40.1	
651.8	CARBONDALE		SANDSTONE	2.5	50.1	
649.3	CARBONDALE		SANDY SHALE	15.4	52.6	
633.9	CARBONDALE	ANNA	BLACK SHALE	2.0	68.0	
631.9	CARBONDALE	HERRIN	COAL WITH SHALE	4.5	70.0	2-IN PTG
627.4	CARBONDALE		ROCK	1.5	74.5	

MAPID: 05700956000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: BANNER

LONGITUDE: -89.998972

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.618708

DATE COLLECTED: 10 / 1 / 1955

SURFACE ELEVATION (FT.): 682.6

LOGGED (FT.): 69.8

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.6			UNCONSOLIDATED	22.0	0.0	
660.6	MODESTO	FARMINGTON	SHALE	7.0	22.0	B BS MODESTO
653.6	CARBONDALE	DANVILLE	COAL	0.8	29.0	
652.8	CARBONDALE		UNDERCLAY	2.0	29.8	
650.8	CARBONDALE		SHALE	6.2	31.8	
644.6	CARBONDALE		SANDSTONE	1.0	38.0	
643.6	CARBONDALE		SHALE	1.0	39.0	
642.6	CARBONDALE		SANDSTONE	4.0	40.0	
638.6	CARBONDALE		SANDY SHALE	16.0	44.0	
622.6	CARBONDALE	BRERETON	LIMESTONE	2.0	60.0	
620.6	CARBONDALE	ANNA	BLACK SHALE	1.0	62.0	
619.6	CARBONDALE	HERRIN	COAL WITH SHALE	4.8	63.0	4-IN PTG
614.8	CARBONDALE		UNDERCLAY	2.0	67.8	

MAPID: 05700958000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 1 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NW

QUADRANGLE: CANTON

LONGITUDE: -90.003692

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.625922

DATE COLLECTED: 10 / 3 / 1955

SURFACE ELEVATION (FT.): 703.0

LOGGED (FT.): 100.2

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.0			UNCONSOLIDATED	40.0	0.0	
663.0	MODESTO	FARMINGTON	SHALE	13.0	40.0	
650.0	MODESTO		SHALE	1.5	53.0	B BS MODESTO
648.5	CARBONDALE	DANVILLE	COAL	1.5	54.5	
647.0	CARBONDALE		UNDERCLAY	3.0	56.0	
644.0	CARBONDALE		SHALE	11.0	59.0	
633.0	CARBONDALE		SANDSTONE	2.3	70.0	
630.7	CARBONDALE		SANDY SHALE	19.7	72.3	
611.0	CARBONDALE		SANDSTONE	2.5	92.0	
608.5	CARBONDALE	HERRIN	COAL WITH SHALE	4.7	94.5	4-IN PTG
603.8	CARBONDALE		UNDERCLAY	1.0	99.2	

MAPID: 05700962000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 1 QUARTERS/FOOTAGES: NW

QUADRANGLE: CANTON LONGITUDE: -90.00376 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.622341 DATE COLLECTED: 10 / 1 / 1955

SURFACE ELEVATION (FT.): 629.5 LOGGED (FT.): 12.3 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.5			UNCONSOLIDATED	2.5	0.0	
627.0	CARBONDALE		SHALE	3.5	2.5	
623.5	CARBONDALE	HERRIN	COAL WITH SHALE	4.3	6.0	4-IN PTG
619.2	CARBONDALE		UNDERCLAY	2.0	10.3	

MAPID: 05701132000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 1 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE

QUADRANGLE: BANNER LONGITUDE: -89.999152 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.611504 DATE COLLECTED: 12 / 18 / 1959

SURFACE ELEVATION (FT.): 688.0 LOGGED (FT.): 143.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.0			UNCONSOLIDATED	29.0	0.0	
659.0	MODESTO	FARMINGTON	SHALE	3.5	29.0	BS MODESTO,GY,DK
655.5	CARBONDALE	DANVILLE	COAL	1.2	32.5	
654.3	CARBONDALE		SHALE	10.3	33.7	
644.0	CARBONDALE		SANDSTONE	16.0	44.0	
628.0	CARBONDALE		SHALE	7.0	60.0	SDY,GY
621.0	CARBONDALE		SHALE	1.3	67.0	DARK
619.7	CARBONDALE	HERRIN	COAL	4.8	68.3	
615.0	CARBONDALE		SHALE	62.4	73.0	
552.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	135.4	FISSILE
551.4	CARBONDALE	SPRINGFIELD	COAL	4.3	136.6	
547.1	CARBONDALE		UNDERCLAY	2.1	140.9	

MAPID: 05786647000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 1 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.003692 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.625922 DATE COLLECTED: 10 / 3 / 1955

SURFACE ELEVATION (FT.): 703.0 LOGGED (FT.): 101.2 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE B619 WELL TYPE: Coal Test

COMMENT: NORRIS BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.0	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
693.0	PLEISTOCENE		CLAY & GRAVEL	10.0	10.0	
683.0	PLEISTOCENE		CLAY	10.0	20.0	
673.0	PLEISTOCENE		CLAY	10.0	30.0	GUMMY
663.0	SHELBURN		SHALE	13.0	40.0	SOFT
650.0	SHELBURN		BLACK SHALE	1.5	53.0	
648.5	SHELBURN	DANVILLE	COAL	1.5	54.5	
647.0	SHELBURN		UNDERCLAY	3.0	56.0	
644.0	SHELBURN		SHALE	11.0	59.0	SOFT
633.0			SHALE	2.3	70.0	SOFT
630.7			SANDSTONE	19.7	72.3	HARD
611.0			SANDY SHALE	2.5	92.0	HARD
608.5			SANDSTONE	2.2	94.5	HARD
606.3			COAL	1.3	96.7	SOFT
605.0			COAL	2.2	98.0	
602.8			UNDERCLAY	1.0	100.2	

MAPID: 05786648000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 1 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SE

QUADRANGLE: BANNER LONGITUDE: -89.999062 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.615104 DATE COLLECTED: 11 / 5 / 1955

SURFACE ELEVATION (FT.): 689.9 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE B471 WELL TYPE: Coal Test

COMMENT: NORRIS BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.9	PLEISTOCENE		CLAY	17.0	0.0	
672.9	PLEISTOCENE		CLAY	13.0	17.0	
659.9	SHELBURN		SHALE	1.0	30.0	
658.9	SHELBURN	DANVILLE	COAL	1.0	31.0	
657.9	SHELBURN		UNDERCLAY	3.0	32.0	SOFT
654.9	SHELBURN		SANDY SHALE	27.5	35.0	HARD
627.4	SHELBURN	BRERETON	LIMESTONE	3.5	62.5	HARD
623.9	SHELBURN		SHALE	0.5	66.0	SOFT
623.4	CARBONDALE	HERRIN	COAL	2.7	66.5	GOOD
620.7	CARBONDALE	HERRIN	CLAYSTONE	0.1	69.2	
620.6	CARBONDALE	HERRIN	COAL	1.1	69.3	
619.6	CARBONDALE	HERRIN	PYRITE	0.1	70.3	
619.5	CARBONDALE	HERRIN	COAL	3.6	70.4	
615.9	CARBONDALE		UNDERCLAY	3.0	74.0	

MAPID: 05700966000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 2 QUARTERS/FOOTAGES: 330' S line, 0' E line of NE NW

QUADRANGLE: CANTON LONGITUDE: -90.018156 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.623242 DATE COLLECTED: 10 / 10 / 1955

SURFACE ELEVATION (FT.): 654.4 LOGGED (FT.): 54.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.4			UNCONSOLIDATED	7.0	0.0	
647.4	MODESTO	FARMINGTON	SHALE	3.0	7.0	B BS MODESTO
644.4	CARBONDALE	DANVILLE	COAL	1.5	10.0	
642.9	CARBONDALE		UNDERCLAY	2.0	11.5	
640.9	CARBONDALE		SANDY SHALE	31.0	13.5	
609.9	CARBONDALE	ANNA	BLACK SHALE	2.5	44.5	
607.4	CARBONDALE	HERRIN	COAL WITH SHALE	3.9	47.0	2.5-IN PTG
603.5	CARBONDALE		UNDERCLAY	3.1	50.9	

MAPID: 05700968000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 2 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NW

QUADRANGLE: CANTON LONGITUDE: -90.022871 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.625851 DATE COLLECTED: 10 / 4 / 1955

SURFACE ELEVATION (FT.): 665.7 LOGGED (FT.): 43.2 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.7			UNCONSOLIDATED	14.0	0.0	
651.7	CARBONDALE		SANDSTONE	0.8	14.0	
650.9	CARBONDALE		SANDY SHALE	4.2	14.8	
646.7	CARBONDALE		SANDSTONE	1.0	19.0	
645.7	CARBONDALE		SANDY SHALE	19.0	20.0	
626.7	CARBONDALE	HERRIN	COAL WITH SHALE	4.2	39.0	8-IN CLY PTG

MAPID: 05701725000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 2 QUARTERS/FOOTAGES: 90' S line, 105' E line

QUADRANGLE: CANTON LONGITUDE: -90.009154 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.61193 DATE COLLECTED: 8 / 3 / 1960

SURFACE ELEVATION (FT.): 682.2 LOGGED (FT.): 70.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.2			UNCONSOLIDATED	17.5	0.0	
664.7	MODESTO	FARMINGTON	SHALE	12.2	17.5	
652.5	MODESTO		BLACK SHALE	1.9	29.7	BS MODESTO;BK,FIS
650.6	CARBONDALE	DANVILLE	COAL	1.8	31.6	
648.9	CARBONDALE		SHALE	10.7	33.3	LIGHT GRAY
638.2	CARBONDALE		SANDSTONE/SHALE	19.5	44.0	
618.7	CARBONDALE		SHALE	1.5	63.5	DARK
617.2	CARBONDALE	ANNA	BLACK SHALE	0.9	65.0	FISSILE
616.3	CARBONDALE	HERRIN	COAL	3.9	65.9	
612.4	CARBONDALE		UNDERCLAY	1.0	69.8	

MAPID: 05701727000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 2 QUARTERS/FOOTAGES: 150' S line, 270' W line of SE

QUADRANGLE: CANTON LONGITUDE: -90.017348 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.612099 DATE COLLECTED: 8 / 3 / 1960

SURFACE ELEVATION (FT.): 640.3 LOGGED (FT.): 108.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: SPRINGFIELD DATA FROM CS MAP 6-115A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.3			UNCONSOLIDATED	9.0	0.0	
631.3	CARBONDALE		SANDSTONE/SHALE	19.6	9.0	
611.7	CARBONDALE		SHALE	0.3	28.6	DARK
611.5	CARBONDALE	ANNA	BLACK SHALE	2.8	28.8	FISSILE
608.6	CARBONDALE	HERRIN	COAL	4.1	31.7	
604.6	CARBONDALE		UNDERCLAY	1.7	35.7	
602.9	CARBONDALE		ROCK	66.8	37.4	
536.1	CARBONDALE	SPRINGFIELD	COAL	4.3	104.2	

MAPID: 05701729000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 2 QUARTERS/FOOTAGES: 100' S line, 300' W line of NE

QUADRANGLE: CANTON LONGITUDE: -90.017132 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.619061 DATE COLLECTED: 8 / 22 / 1960

SURFACE ELEVATION (FT.): 651.0 LOGGED (FT.): 52.3 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.0			UNCONSOLIDATED	6.0	0.0	
645.0	MODESTO	FARMINGTON	SHALE	2.9	6.0	BS MODESTO
642.1	CARBONDALE	DANVILLE	COAL	2.1	8.9	
640.0	CARBONDALE		SHALE	10.5	11.0	
629.5	CARBONDALE		SANDSTONE	2.5	21.5	
627.0	CARBONDALE		SANDY SHALE	23.0	24.0	
604.0	CARBONDALE		SHALE	0.4	47.0	DARK
603.6	CARBONDALE	HERRIN	COAL	4.0	47.4	
599.6	CARBONDALE		UNDERCLAY	0.9	51.4	

MAPID: 05701730000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 2 QUARTERS/FOOTAGES: 30' S line, 1200' E line of SW
 QUADRANGLE: CANTON LONGITUDE: -90.022675 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.611767 DATE COLLECTED: 1 / 5 / 1961
 SURFACE ELEVATION (FT.): 701.8 LOGGED (FT.): 80.9 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.8			UNCONSOLIDATED	30.0	0.0	
671.8	MODESTO	FARMINGTON	SHALE	11.7	30.0	BS MODESTO
660.1	CARBONDALE	DANVILLE	COAL	1.3	41.7	
658.8	CARBONDALE		SHALE	10.5	43.0	
648.3	CARBONDALE		LIMESTONE	1.5	53.5	
646.8	CARBONDALE		SHALE	5.0	55.0	
641.8	CARBONDALE		SANDSTONE/SHALE	7.0	60.0	
634.8	CARBONDALE		SHALE	8.7	67.0	
626.1	CARBONDALE		SHALE	0.2	75.7	DARK
626.0	CARBONDALE	ANNA	BLACK SHALE	0.4	75.8	FISSILE
625.5	CARBONDALE	HERRIN	COAL WITH SHALE	4.6	76.3	2-IN PTG
621.0	CARBONDALE		UNDERCLAY	0.1	80.8	

MAPID: 05701732000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 2 QUARTERS/FOOTAGES: 15' N line, 30' W line of SW
 QUADRANGLE: CANTON LONGITUDE: -90.027655 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.618714 DATE COLLECTED: 1 / 6 / 1961
 SURFACE ELEVATION (FT.): 718.6 LOGGED (FT.): 100.8 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.6			UNCONSOLIDATED	24.0	0.0	
694.6	MODESTO	FARMINGTON	SHALE	31.8	24.0	
662.8	MODESTO		BLACK SHALE	0.2	55.8	BS MODESTO;BK,FIS
662.6	CARBONDALE	DANVILLE	COAL	1.3	56.0	
661.3	CARBONDALE		SHALE	16.5	57.3	
644.8	CARBONDALE		SANDSTONE	11.3	73.8	
633.6	CARBONDALE		GRAY SHALE	13.0	85.0	
620.6	CARBONDALE	HERRIN	COAL WITH SHALE	2.8	98.0	1-IN PTG
617.8	CARBONDALE		UNDERCLAY	0.1	100.8	

MAPID: 05701733000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 2 QUARTERS/FOOTAGES: 450' S line, 150' E line of SW NE

QUADRANGLE: CANTON LONGITUDE: -90.013979 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.620035 DATE COLLECTED: 9 / 15 / 1960

SURFACE ELEVATION (FT.): 710.0 LOGGED (FT.): 107.4 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
710.0			UNCONSOLIDATED	23.0	0.0	
687.0	MODESTO	FARMINGTON	SHALE	40.1	23.0	
646.9	MODESTO		BLACK SHALE	1.0	63.1	FISSILE
645.9	MODESTO		SHALE	1.8	64.1	BS MODESTO,BL
644.2	CARBONDALE	DANVILLE	COAL	1.5	65.8	
642.7	CARBONDALE		SHALE	7.7	67.3	
635.0	CARBONDALE		SANDY SHALE	2.5	75.0	
632.5	CARBONDALE		SANDSTONE	23.3	77.5	
609.2	CARBONDALE		SHALE	0.4	100.8	DARK
608.7	CARBONDALE	ANNA	BLACK SHALE	1.4	101.3	FISSILE
607.3	CARBONDALE	HERRIN	COAL WITH SHALE	4.7	102.7	3-IN PTG
602.7	CARBONDALE		UNDERCLAY	0.1	107.3	

MAPID: 05701735000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 2 QUARTERS/FOOTAGES: 60' S line, 250' W line of SE NE

QUADRANGLE: CANTON LONGITUDE: -90.012548 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.618962 DATE COLLECTED: 9 / 16 / 1960

SURFACE ELEVATION (FT.): 705.0 LOGGED (FT.): 100.6 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.0			UNCONSOLIDATED	26.5	0.0	
678.5	MODESTO		SHALE	21.0	26.5	
657.5	MODESTO		LIMESTONE	0.5	47.5	
657.0	MODESTO	FARMINGTON	SHALE	9.5	48.0	
647.5	MODESTO		BLACK SHALE	2.5	57.5	BS MODESTO;BK,FIS
645.0	CARBONDALE	DANVILLE	COAL	1.8	60.0	
643.2	CARBONDALE		SHALE	3.2	61.8	
640.0	CARBONDALE		SANDSTONE	4.0	65.0	
636.0	CARBONDALE		SHALE	3.0	69.0	
633.0	CARBONDALE		SANDSTONE	22.0	72.0	
611.0	CARBONDALE		SHALE	1.3	94.0	DARK
609.7	CARBONDALE	ANNA	BLACK SHALE	0.7	95.3	FISSILE
609.0	CARBONDALE	HERRIN	COAL	4.3	96.0	
604.7	CARBONDALE		UNDERCLAY	0.3	100.3	

MAPID: 05701736000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 2 QUARTERS/FOOTAGES: 30' N line, 0' E line of NW SW
 QUADRANGLE: CANTON LONGITUDE: -90.022995 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.618685 DATE COLLECTED: 1 / 8 / 1961
 SURFACE ELEVATION (FT.): 718.9 LOGGED (FT.): 107.1 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.9			UNCONSOLIDATED	30.0	0.0	
688.9	MODESTO	FARMINGTON	SHALE	36.5	30.0	BS MODESTO
652.4	CARBONDALE	DANVILLE	COAL	1.5	66.5	
650.9	CARBONDALE		UNDERCLAY	1.5	68.0	
649.4	CARBONDALE		SHALE	15.0	69.5	
634.4	CARBONDALE		LIMESTONE	1.5	84.5	LIGHT GRAY
632.9	CARBONDALE		SANDSTONE	1.7	86.0	
631.2	CARBONDALE		SHALE	11.3	87.7	
619.9	CARBONDALE	BRERETON	LIMESTONE	3.5	99.0	
616.4	CARBONDALE		GRAY SHALE	0.3	102.5	
616.1	CARBONDALE	HERRIN	COAL WITH SHALE	4.1	102.8	3-IN PTG
612.0	CARBONDALE		UNDERCLAY	0.2	106.9	

MAPID: 05701737000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 2 QUARTERS/FOOTAGES: 450' S line, 250' W line of NE SE
 QUADRANGLE: CANTON LONGITUDE: -90.012584 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.616482 DATE COLLECTED: 9 / 19 / 1960
 SURFACE ELEVATION (FT.): 703.5 LOGGED (FT.): 97.2 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.5			UNCONSOLIDATED	24.0	0.0	
679.5	MODESTO		SHALE	3.0	24.0	GR
676.5	MODESTO		SANDSTONE	3.0	27.0	
673.5	MODESTO	FARMINGTON	SHALE	24.0	30.0	
649.5	MODESTO		BLACK SHALE	3.5	54.0	BS MODESTO;BK.FIS
646.0	CARBONDALE	DANVILLE	COAL	1.0	57.5	
645.0	CARBONDALE		SHALE	11.5	58.5	
633.5	CARBONDALE		SANDSTONE	10.0	70.0	
623.5	CARBONDALE		SANDY SHALE	7.0	80.0	
616.5	CARBONDALE		SANDSTONE	1.0	87.0	
615.5	CARBONDALE	BRERETON	LIMESTONE	4.7	88.0	
610.8	CARBONDALE		SHALE	0.6	92.7	DARK
610.2	CARBONDALE	HERRIN	COAL	2.9	93.3	
607.3	CARBONDALE		UNDERCLAY	1.0	96.2	

MAPID: 05701738000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 2 QUARTERS/FOOTAGES: 910' N line, 660' E line of SW
 QUADRANGLE: CANTON LONGITUDE: -90.020652 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.616265 DATE COLLECTED: 1 / 10 / 1961
 SURFACE ELEVATION (FT.): 706.8 LOGGED (FT.): 101.3 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.8			UNCONSOLIDATED	28.0	0.0	
678.8	MODESTO	FARMINGTON	SHALE	32.0	28.0	BS MODESTO
646.8	CARBONDALE	DANVILLE	COAL	1.5	60.0	
645.3	CARBONDALE		UNDERCLAY	1.0	61.5	
644.3	CARBONDALE		SHALE	12.5	62.5	
631.8	CARBONDALE		SANDSTONE	4.4	75.0	
627.4	CARBONDALE		SHALE	14.3	79.4	
613.1	CARBONDALE	BRERETON	LIMESTONE	3.6	93.7	
609.5	CARBONDALE		GRAY SHALE	0.2	97.3	
609.4	CARBONDALE	HERRIN	COAL WITH SHALE	3.8	97.4	3-IN PTG

MAPID: 05760117000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 3 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SW
 QUADRANGLE: CANTON LONGITUDE: -90.046823 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.615066 DATE COLLECTED: 3 / 12 / 1961
 SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 78.1 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.0	MODESTO		ROCK	35.4	0.0	BS MODESTO,UNDIFF
689.6	CARBONDALE	DANVILLE	COAL	0.9	35.4	
688.7	CARBONDALE		UNCLASSIFIED	37.7	36.3	
651.0	CARBONDALE	HERRIN	COAL	4.1	74.0	

MAPID: 05760118000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 3 QUARTERS/FOOTAGES: 0' N line, 0' E line of SW SE
 QUADRANGLE: CANTON LONGITUDE: -90.032563 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.615175 DATE COLLECTED: 3 / 12 / 1961
 SURFACE ELEVATION (FT.): 723.0 LOGGED (FT.): 75.6 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.0	MODESTO		ROCK	30.7	0.0	BS MODESTO,UNDIFF
692.3	CARBONDALE	DANVILLE	COAL	2.9	30.7	
689.4	CARBONDALE		UNCLASSIFIED	38.1	33.6	
651.3	CARBONDALE	HERRIN	COAL	3.9	71.7	

MAPID: 05760119000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 3 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW SW
 QUADRANGLE: CANTON LONGITUDE: -90.041989 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.618678 DATE COLLECTED: 3 / 12 / 1961
 SURFACE ELEVATION (FT.): 728.0 LOGGED (FT.): 75.1 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.0	MODESTO		ROCK	30.9	0.0	BS MODESTO,UNDIFF
697.1	CARBONDALE	DANVILLE	COAL	2.0	30.9	
695.1	CARBONDALE		UNCLASSIFIED	37.1	32.9	
658.0	CARBONDALE	HERRIN	COAL	5.1	70.0	

MAPID: 05760120000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 3 QUARTERS/FOOTAGES: 330' S line, 0' E line of NE SW
 QUADRANGLE: CANTON LONGITUDE: -90.037298 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.61605 DATE COLLECTED: 3 / 12 / 1961
 SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0	CARBONDALE	HERRIN	COAL	5.0	60.0	

MAPID: 05760125000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 3 **QUARTERS/FOOTAGES:** 0' N line, 0' W line of SW
QUADRANGLE: CANTON **LONGITUDE:** -90.046742 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.618662 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 730.0 **LOGGED (FT.):** 78.5 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.0	CARBONDALE	SPRINGFIELD	COAL	4.8	64.0	

MAPID: 05760137000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 3 **QUARTERS/FOOTAGES:** 0' S line, 100' W line
QUADRANGLE: CANTON **LONGITUDE:** -90.046544 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.611475 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 715.0 **LOGGED (FT.):** 70.7 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.0	MODESTO		ROCK	31.3	0.0	BS MODESTO,UNDIFF
683.7	CARBONDALE	DANVILLE	COAL	1.0	31.3	
682.7	CARBONDALE		UNCLASSIFIED	33.9	32.3	
648.7	CARBONDALE	HERRIN	COAL	4.4	66.3	

MAPID: 05760151000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' S line, 0' E line of NW SW
QUADRANGLE: CANTON **LONGITUDE:** -90.042051 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.616012 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 722.0 **LOGGED (FT.):** 74.3 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.0	MODESTO		ROCK	29.2	0.0	BS MODESTO,UNDIFF
692.8	CARBONDALE	DANVILLE	COAL	1.6	29.2	
691.2	CARBONDALE		UNCLASSIFIED	39.4	30.8	
651.8	CARBONDALE	HERRIN	COAL	4.2	70.2	

MAPID: 05760152000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 3 QUARTERS/FOOTAGES: 0' S line, 130' E line of SW SW
 QUADRANGLE: CANTON LONGITUDE: -90.042624 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.611521 DATE COLLECTED: 3 / 12 / 1961
 SURFACE ELEVATION (FT.): 695.0 LOGGED (FT.): 64.9 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.0	MODESTO		ROCK	23.8	0.0	BS MODESTO,UNDIFF
671.2	CARBONDALE	DANVILLE	COAL	1.8	23.8	
669.4	CARBONDALE		UNCLASSIFIED	34.4	25.6	
635.0	CARBONDALE	HERRIN	COAL	4.9	60.0	

MAPID: 05760163000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 3 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SE
 QUADRANGLE: CANTON LONGITUDE: -90.032644 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.611632 DATE COLLECTED: 3 / 12 / 1961
 SURFACE ELEVATION (FT.): 705.0 LOGGED (FT.): 75.9 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.0	MODESTO		ROCK	29.5	0.0	BS MODESTO,UNDIFF
675.5	CARBONDALE	DANVILLE	COAL	0.9	29.5	
674.6	CARBONDALE		UNCLASSIFIED	42.9	30.4	
631.7	CARBONDALE	HERRIN	COAL	2.6	73.3	

MAPID: 05760164000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 3 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW
 QUADRANGLE: CANTON LONGITUDE: -90.037397 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.61158 DATE COLLECTED: 3 / 12 / 1961
 SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.0	MODESTO		ROCK	25.2	0.0	BS MODESTO,UNDIFF
674.8	CARBONDALE	DANVILLE	COAL	1.6	25.2	
673.2	CARBONDALE		UNCLASSIFIED	33.9	26.8	
639.3	CARBONDALE	HERRIN	COAL	4.3	60.7	

MAPID: 05701741000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 4 QUARTERS/FOOTAGES: 12' S line, 42' E line of NW

QUADRANGLE: CANTON LONGITUDE: -90.056218 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.618668 DATE COLLECTED: 10 / 13 / 1961

SURFACE ELEVATION (FT.): 736.8 LOGGED (FT.): 90.4 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.8			UNCONSOLIDATED	25.5	0.0	
711.3	MODESTO		SHALE	14.5	25.5	
696.8	MODESTO		LIMESTONE	0.3	40.0	
696.5	MODESTO	FARMINGTON	SHALE	6.3	40.3	
690.3	MODESTO		BLACK SHALE	3.9	46.5	BS MODESTO:BK,FIS
686.4	CARBONDALE	DANVILLE	COAL	1.4	50.4	
685.0	CARBONDALE		SHALE	11.2	51.8	
673.8	CARBONDALE		SANDSTONE	10.0	63.0	
663.8	CARBONDALE		SHALE	12.6	73.0	
651.2	CARBONDALE		ROCK	1.3	85.6	WHITE TOP
649.9	CARBONDALE	HERRIN	COAL	2.5	86.9	3-IN PTG
647.4	CARBONDALE		UNDERCLAY	1.0	89.4	

MAPID: 05701742000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 4 QUARTERS/FOOTAGES: 1320' S line, 12' E line of SE NW

QUADRANGLE: CANTON LONGITUDE: -90.056018 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.622277 DATE COLLECTED: 10 / 14 / 1960

SURFACE ELEVATION (FT.): 746.8 LOGGED (FT.): 105.3 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.8			UNCONSOLIDATED	27.0	0.0	
719.8	MODESTO		SHALE	14.5	27.0	
705.3	MODESTO		LIMESTONE	0.3	41.5	
705.0	MODESTO	FARMINGTON	SHALE	21.2	41.8	
683.8	MODESTO		BLACK SHALE	2.7	63.0	BS MODESTO:BK,FIS
681.1	CARBONDALE	DANVILLE	COAL	1.1	65.7	
680.0	CARBONDALE		SHALE	10.3	66.8	
669.8	CARBONDALE		SANDSTONE	3.0	77.0	
666.8	CARBONDALE		LIMESTONE	2.0	80.0	
664.8	CARBONDALE		SANDSTONE	6.0	82.0	
658.8	CARBONDALE		SANDY SHALE	4.5	88.0	
654.3	CARBONDALE		SANDSTONE	4.5	92.5	
649.8	CARBONDALE		SHALE	3.0	97.0	LIGHT GRAY
646.8	CARBONDALE		SHALE	0.1	100.0	DARK
646.7	CARBONDALE		ROCK	0.3	100.1	WHITE TOP
646.5	CARBONDALE	HERRIN	COAL WITH SHALE	4.3	100.3	1-IN PTG
642.2	CARBONDALE		UNDERCLAY	0.7	104.6	

MAPID: 05701745000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 4 QUARTERS/FOOTAGES: 9' S line, 1320' E line of NW

QUADRANGLE: CANTON LONGITUDE: -90.060845 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.618654 DATE COLLECTED: 10 / 26 / 1960

SURFACE ELEVATION (FT.): 741.4 LOGGED (FT.): 89.2 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.4			UNCONSOLIDATED	25.0	0.0	
716.4	MODESTO	FARMINGTON	SHALE	23.1	25.0	
693.3	MODESTO		BLACK SHALE	2.3	48.1	BS MODESTO:BK,FIS
691.1	CARBONDALE	DANVILLE	COAL	1.1	50.3	
690.0	CARBONDALE		SHALE	12.6	51.4	
677.4	CARBONDALE		LIMESTONE	2.0	64.0	
675.4	CARBONDALE		SANDSTONE	5.0	66.0	
670.4	CARBONDALE		GRAY SHALE	10.6	71.0	
659.8	CARBONDALE		SHALE	2.6	81.6	DARK
657.2	CARBONDALE	HERRIN	COAL	4.5	84.2	2-IN PTG
652.7	CARBONDALE		UNDERCLAY	0.5	88.7	

MAPID: 05701746000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 4 QUARTERS/FOOTAGES: NW

QUADRANGLE: CANTON LONGITUDE: -90.060635 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.622247 DATE COLLECTED: 10 / 27 / 1960

SURFACE ELEVATION (FT.): 752.9 LOGGED (FT.): 101.1 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.9			UNCONSOLIDATED	26.0	0.0	
726.9	MODESTO	FARMINGTON	SHALE	32.7	26.0	
694.2	MODESTO		BLACK SHALE	3.6	58.7	BS MODESTO:BK,FIS
690.6	CARBONDALE	DANVILLE	COAL	1.2	62.3	
689.5	CARBONDALE		SHALE	12.1	63.4	
677.4	CARBONDALE		LIMESTONE	2.5	75.5	
674.9	CARBONDALE		SANDSTONE	6.0	78.0	
668.9	CARBONDALE		SHALE	3.0	84.0	
665.9	CARBONDALE	BRERETON	LIMESTONE	2.0	87.0	
663.9	CARBONDALE		GRAY SHALE	7.5	89.0	
656.4	CARBONDALE		ROCK	0.5	96.5	WHITE TOP
655.9	CARBONDALE	HERRIN	COAL WITH SHALE	2.9	97.0	1-IN PTG
653.0	CARBONDALE		UNDERCLAY	1.2	99.9	

MAPID: 05701747000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 4 QUARTERS/FOOTAGES: 21' N line, 1230' W line

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.06075 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.625806 DATE COLLECTED: 11 / 1 / 1960

SURFACE ELEVATION (FT.): 758.9 LOGGED (FT.): 110.4 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
758.9			UNCONSOLIDATED	22.0	0.0	
736.9	MODESTO	FARMINGTON	SHALE	46.3	22.0	
690.6	MODESTO		BLACK SHALE	0.6	68.3	BS MODESTO:BK,FIS
690.0	CARBONDALE	DANVILLE	COAL	1.9	68.9	
688.1	CARBONDALE		UNDERCLAY	0.8	70.8	
687.3	CARBONDALE		SHALE	8.0	71.6	
679.3	CARBONDALE		SANDSTONE	12.8	79.6	
666.5	CARBONDALE		GRAY SHALE	8.4	92.4	
658.1	CARBONDALE		SHALE	2.0	100.8	DARK
656.1	CARBONDALE	BRERETON	LIMESTONE	2.0	102.8	"ROCK"
654.1	CARBONDALE	HERRIN	COAL	4.5	104.8	3-IN PTG
649.6	CARBONDALE		UNDERCLAY	1.1	109.3	

MAPID: 05701749000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 4 QUARTERS/FOOTAGES: 10' N line, 50' E line of NW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.056069 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.62583 DATE COLLECTED: 11 / 12 / 1960

SURFACE ELEVATION (FT.): 754.5 LOGGED (FT.): 108.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
754.5			UNCONSOLIDATED	22.0	0.0	
732.5	MODESTO		SHALE	8.5	22.0	
724.0	MODESTO		LIMESTONE	0.5	30.5	"BOULDER"
723.5	MODESTO	FARMINGTON	SHALE	38.7	31.0	
684.8	MODESTO		BLACK SHALE	0.8	69.7	BS MODESTO:BK,FIS
684.1	CARBONDALE	DANVILLE	COAL	1.0	70.4	
683.1	CARBONDALE		SHALE	12.6	71.4	
670.5	CARBONDALE		SANDSTONE	7.0	84.0	
663.5	CARBONDALE		SHALE	14.0	91.0	
649.5	CARBONDALE		SANDSTONE	0.3	105.0	
649.2	CARBONDALE		ROCK	0.8	105.3	"WHITE TOP"
648.4	CARBONDALE	HERRIN	COAL WITH SHALE	3.7	106.1	1-IN PTG,INCL EST 1 FT CORE LOSS

MAPID: 05760116000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' N line, 0' W line of NW
QUADRANGLE: CANTON **LONGITUDE:** -90.102016 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.625072 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 753.0 **LOGGED (FT.):** 145.0 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.7	CARBONDALE	HERRIN	COAL	3.8	71.3
678.0	CARBONDALE		UNCLASSIFIED	65.8	75.0
612.2	CARBONDALE	SPRINGFIELD	COAL	4.2	140.8

MAPID: 05760121000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 6 **QUARTERS/FOOTAGES:** 0' S line, 0' E line of NW NE
QUADRANGLE: CANTON **LONGITUDE:** -90.089023 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.622318 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 740.0 **LOGGED (FT.):** 79.3 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
664.2	CARBONDALE	HERRIN	COAL	3.5	75.8

MAPID: 05760127000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 6 **QUARTERS/FOOTAGES:** 0' S line, 0' W line of NW SW NW
QUADRANGLE: CANTON **LONGITUDE:** -90.1021 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.620583 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 747.0 **LOGGED (FT.):** 147.8 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.5	CARBONDALE	HERRIN	COAL	3.3	62.5
681.2	CARBONDALE		UNCLASSIFIED	77.5	65.8
603.7	CARBONDALE	SPRINGFIELD	COAL	4.5	143.3

MAPID: 05760129000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 6 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09308 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.625956 DATE COLLECTED: 3 / 12 / 1961

SURFACE ELEVATION (FT.): 752.0 LOGGED (FT.): 151.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.0			ROCK	77.7	0.0	UNDIFF. CTNS DANVILLE
674.3	CARBONDALE	HERRIN	COAL	3.7	77.7	
670.7	CARBONDALE		UNCLASSIFIED	66.3	81.3	
604.3	CARBONDALE	SPRINGFIELD	COAL	4.2	147.7	

MAPID: 05760133000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.093228 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.618721 DATE COLLECTED: 3 / 12 / 1961

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 69.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.8	CARBONDALE	HERRIN	COAL	3.7	66.2	

MAPID: 05760134000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 6 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW NE

QUADRANGLE: CANTON LONGITUDE: -90.0891 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.618692 DATE COLLECTED: 3 / 12 / 1961

SURFACE ELEVATION (FT.): 743.0 LOGGED (FT.): 59.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.5	CARBONDALE	HERRIN	COAL	2.0	57.5	

MAPID: 05760138000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 6 QUARTERS/FOOTAGES: 0' N line, 0' E line of NE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.084161 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.625931 DATE COLLECTED: 3 / 12 / 1961

SURFACE ELEVATION (FT.): 755.0 LOGGED (FT.): 162.1 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
755.0	MODESTO		ROCK	54.7	0.0	BS MODESTO,UNDIFF
700.3	CARBONDALE	DANVILLE	COAL	1.7	54.7	
698.7	CARBONDALE		UNCLASSIFIED	32.3	56.3	
666.3	CARBONDALE	HERRIN	COAL	4.2	88.7	
662.2	CARBONDALE		UNCLASSIFIED	65.0	92.8	
597.2	CARBONDALE	SPRINGFIELD	COAL	4.3	157.8	

MAPID: 05760150000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 6 QUARTERS/FOOTAGES: 660' N line, 330' E line of SE NW

QUADRANGLE: CANTON LONGITUDE: -90.095036 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.620528 DATE COLLECTED: 3 / 12 / 1961

SURFACE ELEVATION (FT.): 751.0 LOGGED (FT.): 146.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.0	CARBONDALE	HERRIN	COAL	4.5	69.0	
677.5	CARBONDALE		UNCLASSIFIED	68.8	73.5	
608.7	CARBONDALE	SPRINGFIELD	COAL	4.3	142.3	

MAPID: 05760153000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 6 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE NE

QUADRANGLE: CANTON LONGITUDE: -90.084243 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.622294 DATE COLLECTED: 3 / 12 / 1961

SURFACE ELEVATION (FT.): 751.0 LOGGED (FT.): 161.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.8	CARBONDALE	HERRIN	COAL	4.7	87.2	
659.2	CARBONDALE		UNCLASSIFIED	65.7	91.8	
593.5	CARBONDALE	SPRINGFIELD	COAL	4.3	157.5	

MAPID: 05784443000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.102108

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6206

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.9 LOGGED (FT.): 76.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 515

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.9			UNKNOWN	73.1	0.0	
672.8	CARBONDALE		CLAYSTONE	0.3	73.1	WHITE TOP
672.5	CARBONDALE	HERRIN	COAL/CLAYSTONE	2.0	73.4	WHITE TOP AND BLUE BAND
670.5	CARBONDALE	HERRIN	COAL	1.3	75.4	

MAPID: 05784444000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.099776

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.620611

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.7 LOGGED (FT.): 76.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 516

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.7			UNKNOWN	71.9	0.0	
673.8	CARBONDALE	HERRIN	COAL	2.8	71.9	BLUE BAND & SANDSTONE
671.0	CARBONDALE	HERRIN	COAL	1.5	74.7	

MAPID: 05784450000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: CANTON LONGITUDE: -90.099791

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.618964

DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.9 LOGGED (FT.): 69.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 520

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.9			UNKNOWN	65.1	0.0	
679.8	CARBONDALE		CLAYSTONE	1.6	65.1	WHITE TOP
678.2	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.1	66.7	WHITE TOP
677.1	CARBONDALE	HERRIN	COAL	1.3	67.8	

MAPID: 05721778000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 7 QUARTERS/FOOTAGES: 910' S line, 450' W line of NE

QUADRANGLE: CANTON LONGITUDE: -90.092528 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.606662 DATE COLLECTED: 7 / 17 / 1973

SURFACE ELEVATION (FT.): 732.1 LOGGED (FT.): 120.0 LOG TYPE: Drillers Log

SOURCE: CONSOLIDATION COAL CO. WELL TYPE: Coal Test

COMMENT: 1,4

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.1			UNCONSOLIDATED	41.5	0.0	
690.6	CARBONDALE		SHALE	2.4	41.5	
688.2	CARBONDALE		SHALE	1.5	43.9	DARK
686.7	CARBONDALE	HERRIN	COAL	3.4	45.4	2-IN PTG (BL BND)
683.3	CARBONDALE		UNDERCLAY	1.2	48.8	
682.1	CARBONDALE		SHALE	3.1	50.0	
679.0	CARBONDALE		LIMESTONE	6.3	53.1	SHY IN TOP 2 FT
672.7	CARBONDALE		SHALE	4.6	59.4	
668.1	CARBONDALE		SANDY SHALE	6.8	64.0	
661.3	CARBONDALE		SANDSTONE	4.1	70.8	
657.2	CARBONDALE		SANDY SHALE	11.6	74.9	
645.6	CARBONDALE		SHALE	9.6	86.5	
636.0	CARBONDALE		SHALE	15.4	96.1	LS STKS
620.6	CARBONDALE	ST. DAVID	LIMESTONE	1.0	111.5	
619.6	CARBONDALE		SHALE	2.0	112.5	DARK
617.6	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	114.5	FISSILE
617.1	CARBONDALE	SPRINGFIELD	COAL	4.7	115.0	
612.4	CARBONDALE		UNDERCLAY	0.3	119.7	

MAPID: 05760130000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 7 QUARTERS/FOOTAGES: 165' N line, 0' W line of NW SW

QUADRANGLE: CANTON LONGITUDE: -90.102533 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.60376 DATE COLLECTED: 3 / 12 / 1961

SURFACE ELEVATION (FT.): 716.0 LOGGED (FT.): 97.6 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAEER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.3	CARBONDALE	HERRIN	COAL	4.3	20.7	
691.1	CARBONDALE		UNCLASSIFIED	67.7	24.9	
623.4	CARBONDALE	SPRINGFIELD	COAL	5.0	92.6	

MAPID: 05760131000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 7 **QUARTERS/FOOTAGES:** 0' S line, 165' W line
QUADRANGLE: CANTON **LONGITUDE:** -90.119793 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.702468 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 675.0 **LOGGED (FT.):** 67.7 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
612.5	CARBONDALE	SPRINGFIELD	COAL	5.2	62.5	

MAPID: 05760132000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 7 **QUARTERS/FOOTAGES:** 0' N line, 165' E line of NW SW
QUADRANGLE: CANTON **LONGITUDE:** -90.098649 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.60419 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 708.0 **LOGGED (FT.):** 104.7 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
607.3	CARBONDALE	SPRINGFIELD	COAL	4.0	100.7	

MAPID: 05760165000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 7 **QUARTERS/FOOTAGES:** 0' S line, 83' E line of SW
QUADRANGLE: CANTON **LONGITUDE:** -90.110487 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.698703 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 708.0 **LOGGED (FT.):** 84.5 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
628.0	CARBONDALE	SPRINGFIELD	COAL	4.5	80.0	

MAPID: 05760166000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 7 **QUARTERS/FOOTAGES:** 0' S line, 0' W line of SE SW
QUADRANGLE: CANTON **LONGITUDE:** -90.105723 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.698633 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 701.0 **LOGGED (FT.):** 85.2 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.0	CARBONDALE	SPRINGFIELD	COAL	5.2	80.0	

MAPID: 05701752000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 9 QUARTERS/FOOTAGES: 40' N line, 30' W line of SW

QUADRANGLE: CANTON LONGITUDE: -90.065653 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.604075 DATE COLLECTED: 3 / 7 / 1960

SURFACE ELEVATION (FT.): 705.0 LOGGED (FT.): 134.2 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: SPRINGFIELD DATA FROM CS MAP 6-115A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.0			UNCONSOLIDATED	37.0	0.0	
668.0	CARBONDALE		SANDSTONE/SHALE	6.0	37.0	
662.0	CARBONDALE		SHALE	12.0	43.0	
650.0	CARBONDALE	BRERETON	LIMESTONE	0.8	55.0	
649.2	CARBONDALE		GRAY SHALE	0.9	55.8	
648.3	CARBONDALE		ROCK	1.0	56.7	"WHITE TOP"
647.3	CARBONDALE	HERRIN	COAL	3.0	57.7	
644.3	CARBONDALE		UNDERCLAY	3.3	60.7	
641.0	CARBONDALE		UNCLASSIFIED	65.8	64.0	
575.2	CARBONDALE	SPRINGFIELD	COAL	4.4	129.8	

MAPID: 05701753000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 9 QUARTERS/FOOTAGES: 1348' N line, 65' W line of SW

QUADRANGLE: CANTON LONGITUDE: -90.065635 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.600466 DATE COLLECTED: 11 / 29 / 1960

SURFACE ELEVATION (FT.): 708.7 LOGGED (FT.): 126.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: SPRINGFIELD DATA FROM ADJACENT HOLE 4

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
708.7			UNCONSOLIDATED	30.0	0.0	
678.7	CARBONDALE		SANDSTONE	2.0	30.0	
676.7	CARBONDALE	BRERETON	LIMESTONE	10.0	32.0	
666.7	CARBONDALE		SHALE	6.0	42.0	LIGHT GRAY
660.7	CARBONDALE		SHALE	4.8	48.0	DARK
655.9	CARBONDALE	HERRIN	COAL	3.9	52.8	
651.9	CARBONDALE		UNDERCLAY	0.7	56.8	
651.3	CARBONDALE		UNCLASSIFIED	64.6	57.4	
586.7	CARBONDALE	SPRINGFIELD	COAL	4.5	122.0	

MAPID: 05701754000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 9 QUARTERS/FOOTAGES: 100' S line, 100' E line of NW SW

QUADRANGLE: CANTON LONGITUDE: -90.061526 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.600864 DATE COLLECTED: 12 / 2 / 1960

SURFACE ELEVATION (FT.): 704.6 LOGGED (FT.): 124.3 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: SPRINGFIELD DATA FROM CS MAP 6-115A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.6			UNCONSOLIDATED	47.0	0.0	
657.6	CARBONDALE		SANDSTONE	3.0	47.0	
654.6	CARBONDALE		SHALE	1.5	50.0	DARK
653.1	CARBONDALE	HERRIN	COAL	3.7	51.5	2-IN PTG
649.4	CARBONDALE		UNDERCLAY	0.1	55.2	
649.3	CARBONDALE		UNCLASSIFIED	65.2	55.3	
584.2	CARBONDALE	SPRINGFIELD	COAL	3.9	120.4	

MAPID: 05701755000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 9 QUARTERS/FOOTAGES: 30' N line, 300' E line of SW

QUADRANGLE: CANTON LONGITUDE: -90.05748 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.604108 DATE COLLECTED: 12 / 6 / 1960

SURFACE ELEVATION (FT.): 697.8 LOGGED (FT.): 118.1 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: SPRINGFIELD DATA FROM ADJACENT HOLE 3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.8			UNCONSOLIDATED	25.0	0.0	
672.8	CARBONDALE		SANDSTONE	12.0	25.0	
660.8	CARBONDALE		SHALE	7.0	37.0	
653.8	CARBONDALE	BRERETON	LIMESTONE	2.1	44.0	
651.7	CARBONDALE	ANNA	BLACK SHALE	1.0	46.1	FISSILE
650.7	CARBONDALE	HERRIN	COAL	4.5	47.1	2-IN PTG
646.2	CARBONDALE		UNCLASSIFIED	62.3	51.6	
584.0	CARBONDALE	SPRINGFIELD	COAL	4.3	113.8	

MAPID: 05700657000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 10 QUARTERS/FOOTAGES: 1320' N line, 600' E line

QUADRANGLE: CANTON LONGITUDE: -90.030136 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.608015 DATE COLLECTED: 6 / 19 / 1901

SURFACE ELEVATION (FT.): 705.0 LOGGED (FT.): 150.2 LOG TYPE: Drillers Log

SOURCE: MONMOUTH COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.0			UNCONSOLIDATED	46.0	0.0	
659.0	CARBONDALE		UNDERCLAY	4.0	46.0	DANVILLE UCL
655.0	CARBONDALE		ROCK	21.0	50.0	"SOFT STONE"
634.0	CARBONDALE		SHALE	8.9	71.0	
625.1	CARBONDALE	HERRIN	COAL	3.5	79.9	
621.6	CARBONDALE		UNDERCLAY	2.6	83.4	
619.0	CARBONDALE		SHALE	43.0	86.0	
576.0	CARBONDALE		SANDSTONE	6.0	129.0	
570.0	CARBONDALE		SHALE	7.7	135.0	
562.3	CARBONDALE	ST. DAVID	LIMESTONE	1.0	142.7	"CAP ROCK"
561.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	143.7	FISSILE
559.3	CARBONDALE	SPRINGFIELD	COAL	4.0	145.7	
555.3	CARBONDALE		UNDERCLAY	0.5	149.7	

MAPID: 05700660000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 11 QUARTERS/FOOTAGES: 150' S line, 300' W line of NW

QUADRANGLE: CANTON LONGITUDE: -90.026944 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.604818 DATE COLLECTED:

SURFACE ELEVATION (FT.): 698.0 LOGGED (FT.): 147.0 LOG TYPE: Drillers Log

SOURCE: MONMOUTH COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.0			UNCONSOLIDATED	44.0	0.0	
654.0	CARBONDALE		SANDSTONE/SHALE	15.0	44.0	
639.0	CARBONDALE		SANDSTONE	10.0	59.0	
629.0	CARBONDALE	ANNA	BLACK SHALE	2.0	69.0	FISSILE
627.0	CARBONDALE	HERRIN	COAL	5.0	71.0	
622.0	CARBONDALE		UNDERCLAY	3.0	76.0	
619.0	CARBONDALE		SANDSTONE/SHALE	8.0	79.0	
611.0	CARBONDALE		ROCK	40.0	87.0	"SOAPSTONE W/IN LYRS OF ROCK"
571.0	CARBONDALE		SANDSTONE	11.0	127.0	
560.0	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	138.0	FISSILE
557.0	CARBONDALE	SPRINGFIELD	COAL	4.5	141.0	
552.5	CARBONDALE		UNDERCLAY	1.5	145.5	

MAPID: 05700665000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 7N 4E

SECTION: 11

QUARTERS/FOOTAGES: 100' S line, 320' E line of NW

QUADRANGLE: CANTON

LONGITUDE: -90.019653

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.604693

DATE COLLECTED:

SURFACE ELEVATION (FT.): 690.0

LOGGED (FT.): 124.0

LOG TYPE: Drillers Log

SOURCE: MONMOUTH COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.0			UNCONSOLIDATED	32.0	0.0	
658.0	CARBONDALE		SANDSTONE	5.0	32.0	
653.0	CARBONDALE		SHALE	10.0	37.0	SDY UPR 8 FT
643.0	CARBONDALE	BRERETON	LIMESTONE	1.0	47.0	"CAP ROCK"
642.0	CARBONDALE	ANNA	BLACK SHALE	1.5	48.0	FISSILE
640.5	CARBONDALE	HERRIN	COAL	5.0	49.5	
635.5	CARBONDALE		UNDERCLAY	2.0	54.5	
633.5	CARBONDALE		ROCK	9.5	56.5	
624.0	CARBONDALE		SHALE	2.8	66.0	
621.2	CARBONDALE		SANDSTONE	6.2	68.8	
615.0	CARBONDALE		SHALE	40.0	75.0	
575.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	115.0	"CAP ROCK"
574.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	116.0	FISSILE
571.5	CARBONDALE	SPRINGFIELD	COAL	4.3	118.5	
567.2	CARBONDALE		UNDERCLAY	1.3	122.8	

MAPID: 05700666000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 11 QUARTERS/FOOTAGES: 800' N line, 2000' W line

QUADRANGLE: CANTON LONGITUDE: -90.020695 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.609478 DATE COLLECTED: 5 / 16 / 1901

SURFACE ELEVATION (FT.): 697.0 LOGGED (FT.): 149.0 LOG TYPE: Drillers Log

SOURCE: MONMOUTH COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.0			UNCONSOLIDATED	40.0	0.0	
657.0	MODESTO		BLACK SHALE	2.0	40.0	BS MODESTO;BK;FIS
655.0	CARBONDALE	DANVILLE	COAL	3.0	42.0	
652.0	CARBONDALE		UNDERCLAY	7.0	45.0	
645.0	CARBONDALE		SANDSTONE	1.0	52.0	
644.0	CARBONDALE		SHALE	22.5	53.0	
621.5	CARBONDALE	ANNA	BLACK SHALE	1.5	75.5	FISSILE
620.0	CARBONDALE	HERRIN	COAL	5.0	77.0	
615.0	CARBONDALE		UNDERCLAY	2.0	82.0	
613.0	CARBONDALE		ROCK	5.0	84.0	
608.0	CARBONDALE		SHALE	9.0	89.0	
599.0	CARBONDALE		SANDY SHALE	26.0	98.0	
573.0	CARBONDALE		SHALE	19.0	124.0	
554.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	143.0	FISSILE
552.0	CARBONDALE	SPRINGFIELD	COAL	4.0	145.0	

MAPID: 05700667000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 11 QUARTERS/FOOTAGES: 1300' N line, 300' W line of NE

QUADRANGLE: CANTON LONGITUDE: -90.017329 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.608099 DATE COLLECTED: 5 / 29 / 1901

SURFACE ELEVATION (FT.): 694.0 LOGGED (FT.): 150.3 LOG TYPE: Drillers Log

SOURCE: MONMOUTH COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.0			UNCONSOLIDATED	30.0	0.0	
664.0	MODESTO	FARMINGTON	SHALE	10.0	30.0	
654.0	MODESTO		BLACK SHALE	3.0	40.0	BS MODESTO:BK;FIS
651.0	CARBONDALE	DANVILLE	COAL	1.5	43.0	
649.5	CARBONDALE		UNDERCLAY	5.5	44.5	
644.0	CARBONDALE		SHALE	11.0	50.0	
633.0	CARBONDALE		ROCK	2.0	61.0	
631.0	CARBONDALE		SHALE	10.8	63.0	
620.2	CARBONDALE	ANNA	BLACK SHALE	2.6	73.8	FISSILE
617.7	CARBONDALE	HERRIN	COAL	4.8	76.3	
612.8	CARBONDALE		UNDERCLAY	1.8	81.2	
611.0	CARBONDALE		SHALE	7.0	83.0	
604.0	CARBONDALE		ROCK	8.0	90.0	
596.0	CARBONDALE		SHALE	44.5	98.0	
551.5	CARBONDALE	ST. DAVID	LIMESTONE	0.7	142.5	"ROCK"
550.8	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	143.2	FISSILE
547.8	CARBONDALE	SPRINGFIELD	COAL	3.7	146.2	
544.2	CARBONDALE		UNDERCLAY	0.5	149.8	

MAPID: 05700668000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 11 QUARTERS/FOOTAGES: 200' S line, 2000' E line of NE

QUADRANGLE: CANTON LONGITUDE: -90.016187 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.604975 DATE COLLECTED: 6 / 1 / 1901

SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 142.2 LOG TYPE: Drillers Log

SOURCE: MONMOUTH COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.0			UNCONSOLIDATED	35.0	0.0	
640.0	CARBONDALE		UNDERCLAY	11.0	35.0	DANVILLE UCL
629.0	CARBONDALE		SANDSTONE	1.0	46.0	
628.0	CARBONDALE		SHALE	16.7	47.0	
611.3	CARBONDALE		ROCK	3.0	63.7	
608.3	CARBONDALE	HERRIN	COAL	5.0	66.7	
603.3	CARBONDALE		UNDERCLAY	2.0	71.7	
601.3	CARBONDALE		ROCK	22.0	73.7	"SOAPSTONE + LYRS OF ROCK"
579.3	CARBONDALE		SHALE	38.3	95.7	
541.1	CARBONDALE	ST. DAVID	LIMESTONE	1.0	133.9	"ROCK"
540.1	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	134.9	FISSILE
538.1	CARBONDALE	SPRINGFIELD	COAL	4.0	136.9	
534.1	CARBONDALE		UNDERCLAY	1.3	140.9	

MAPID: 05700669000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 11 QUARTERS/FOOTAGES: 1500' S line, 700' E line of NE

QUADRANGLE: CANTON LONGITUDE: -90.011388 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.608569 DATE COLLECTED: 6 / 5 / 1901

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 130.0 LOG TYPE: Drillers Log

SOURCE: MONMOUTH COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0			UNCONSOLIDATED	53.0	0.0	
587.0	CARBONDALE		ROCK	2.3	53.0	
584.7	CARBONDALE	HERRIN	COAL	5.0	55.3	
579.7	CARBONDALE		UNDERCLAY	1.5	60.3	
578.2	CARBONDALE		SHALE	10.0	61.8	
568.2	CARBONDALE		ROCK	4.2	71.8	
564.0	CARBONDALE		SHALE	45.3	76.0	
518.7	CARBONDALE	ST. DAVID	LIMESTONE	1.2	121.3	"CAP ROCK"
517.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	122.5	FISSILE
515.0	CARBONDALE	SPRINGFIELD	COAL	4.0	125.0	
511.0	CARBONDALE		UNDERCLAY	1.0	129.0	

MAPID: 05700670000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 11 QUARTERS/FOOTAGES: 1500' N line, 500' E line of NE

QUADRANGLE: CANTON LONGITUDE: -90.010693 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.607545 DATE COLLECTED: 6 / 8 / 1901

SURFACE ELEVATION (FT.): 636.0 LOGGED (FT.): 115.7 LOG TYPE: Drillers Log

SOURCE: MONMOUTH COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
636.0			UNCONSOLIDATED	37.0	0.0	
599.0	CARBONDALE	ANNA	BLACK SHALE	1.0	37.0	FISSILE
598.0	CARBONDALE	HERRIN	COAL	5.0	38.0	
593.0	CARBONDALE		UNDERCLAY	1.5	43.0	
591.5	CARBONDALE		ROCK	1.5	44.5	
590.0	CARBONDALE		SHALE	7.0	46.0	
583.0	CARBONDALE		ROCK	4.0	53.0	
579.0	CARBONDALE		SANDSTONE/SHALE	4.0	57.0	
575.0	CARBONDALE		SANDSTONE	1.5	61.0	
573.5	CARBONDALE		SHALE	44.5	62.5	
529.0	CARBONDALE	ST. DAVID	LIMESTONE	1.7	107.0	"CAP ROCK"
527.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	108.7	FISSILE
525.3	CARBONDALE	SPRINGFIELD	COAL	4.5	110.7	
520.8	CARBONDALE		UNDERCLAY	0.5	115.2	

MAPID: 05700672000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 11 QUARTERS/FOOTAGES: 100' N line, 250' W line

QUADRANGLE: CANTON LONGITUDE: -90.026991 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.611412 DATE COLLECTED: 6 / 20 / 1901

SURFACE ELEVATION (FT.): 708.0 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log

SOURCE: MONMOUTH COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
708.0			UNCONSOLIDATED	36.0	0.0	
672.0	MODESTO	FARMINGTON	SHALE	3.0	36.0	
669.0	MODESTO		BLACK SHALE	1.0	39.0	BS MODESTO;BK;FIS
668.0	CARBONDALE	DANVILLE	COAL	1.5	40.0	
666.5	CARBONDALE		UNDERCLAY	3.5	41.5	
663.0	CARBONDALE		ROCK	30.3	45.0	"LYRS ROCK + SOAPSTONE"
632.7	CARBONDALE	ANNA	BLACK SHALE	1.0	75.3	FISSILE
631.7	CARBONDALE	HERRIN	COAL	5.3	76.3	
626.5	CARBONDALE		UNDERCLAY	1.5	81.5	
625.0	CARBONDALE		SHALE	2.0	83.0	
623.0	CARBONDALE		ROCK	12.0	85.0	

MAPID: 05700971000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 11 QUARTERS/FOOTAGES: 247' S line, 0' W line of SE NE

QUADRANGLE: CANTON LONGITUDE: -90.013712 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.60511 DATE COLLECTED: 11 / 7 / 1955

SURFACE ELEVATION (FT.): 640.1 LOGGED (FT.): 20.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.1			UNCONSOLIDATED	3.0	0.0	
637.1	CARBONDALE		SANDY SHALE	8.0	3.0	
629.1	CARBONDALE	ANNA	BLACK SHALE	2.2	11.0	
626.9	CARBONDALE	HERRIN	COAL	3.3	13.2	
623.7	CARBONDALE		UNDERCLAY	3.6	16.4	

MAPID: 05700972000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 11 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW

QUADRANGLE: CANTON LONGITUDE: -90.027965 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.608044 DATE COLLECTED: 11 / 4 / 1955

SURFACE ELEVATION (FT.): 703.9 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.9			UNCONSOLIDATED	36.0	0.0	
667.9	CARBONDALE		SHALE	12.0	36.0	
655.9	CARBONDALE		SANDY SHALE	22.0	48.0	
633.9	CARBONDALE	HERRIN	COAL WITH SHALE	3.8	70.0	6-IN PTG
630.1	CARBONDALE		UNDERCLAY	2.2	73.8	

MAPID: 05700975000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 11 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE

QUADRANGLE: CANTON LONGITUDE: -90.008962 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.604435 DATE COLLECTED: 10 / 28 / 1955

SURFACE ELEVATION (FT.): 629.8 LOGGED (FT.): 66.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
629.8			UNCONSOLIDATED	13.0	0.0
616.8	CARBONDALE		SANDY SHALE	43.9	13.0
572.9	CARBONDALE	ST. DAVID	LIMESTONE	0.7	56.9
572.2	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	57.6
570.2	CARBONDALE	SPRINGFIELD	COAL	4.3	59.6
566.0	CARBONDALE		UNDERCLAY	2.2	63.8

MAPID: 05700976000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 11 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SE

QUADRANGLE: CANTON LONGITUDE: -90.018581 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.600788 DATE COLLECTED: 11 / 5 / 1955

SURFACE ELEVATION (FT.): 682.3 LOGGED (FT.): 46.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
682.3			UNCONSOLIDATED	28.0	0.0
654.3	CARBONDALE		SHALE	11.5	28.0
642.8	CARBONDALE	ANNA	BLACK SHALE	1.1	39.5 BK; FIS
641.7	CARBONDALE	HERRIN	COAL WITH SHALE	4.4	40.6 2-IN CLY PTG; 1-IN PYR BND
637.3	CARBONDALE		UNDERCLAY	1.0	45.0

MAPID: 05700978000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 11 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE NE

QUADRANGLE: CANTON LONGITUDE: -90.013555 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.611683 DATE COLLECTED: 10 / 28 / 1955

SURFACE ELEVATION (FT.): 676.8 LOGGED (FT.): 83.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.8			UNCONSOLIDATED	14.0	0.0	
662.8	MODESTO	FARMINGTON	SHALE	27.5	14.0	BS MODESTO
635.3	CARBONDALE	DANVILLE	COAL	1.6	41.5	
633.7	CARBONDALE		UNDERCLAY	3.0	43.1	
630.7	CARBONDALE		SANDY SHALE	28.9	46.1	
601.8	CARBONDALE	ANNA	BLACK SHALE	1.2	75.0	FISSILE
600.6	CARBONDALE	HERRIN	COAL WITH SHALE	4.1	76.2	3-IN CLY PTG
596.5	CARBONDALE		ROCK	2.8	80.3	

MAPID: 05701554000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 11 QUARTERS/FOOTAGES: 600' N line, 1500' W line

QUADRANGLE: CANTON LONGITUDE: -90.022495 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.61003 DATE COLLECTED: 5 / 25 / 1901

SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 148.3 LOG TYPE: Drillers Log

SOURCE: MONMOUTH COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.0			UNCONSOLIDATED	38.0	0.0	
662.0	MODESTO	FARMINGTON	SHALE	2.0	38.0	BS MODESTO
660.0	CARBONDALE	DANVILLE	COAL	1.5	40.0	
658.5	CARBONDALE		UNDERCLAY	5.5	41.5	
653.0	CARBONDALE		SHALE	26.0	47.0	
627.0	CARBONDALE		ROCK	3.5	73.0	
623.5	CARBONDALE	HERRIN	COAL	4.5	76.5	
619.0	CARBONDALE		UNDERCLAY	1.5	81.0	
617.5	CARBONDALE		ROCK	10.0	82.5	
607.5	CARBONDALE		SHALE	47.5	92.5	
560.0	CARBONDALE	ST. DAVID	LIMESTONE	1.5	140.0	"ROCK"
558.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	141.5	FISSILE
557.2	CARBONDALE	SPRINGFIELD	COAL	5.0	142.8	
552.2	CARBONDALE		UNDERCLAY	0.5	147.8	

MAPID: 05700981000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 12 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE NE
 QUADRANGLE: BANNER LONGITUDE: -89.99434 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.611413 DATE COLLECTED: 10 / 26 / 1955
 SURFACE ELEVATION (FT.): 683.7 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.7			UNCONSOLIDATED	34.0	0.0	
649.7	CARBONDALE		SHALE	3.0	34.0	
646.7	CARBONDALE		SANDSTONE	1.5	37.0	
645.2	CARBONDALE		SANDY SHALE	23.5	38.5	
621.7	CARBONDALE	ANNA	BLACK SHALE	0.3	62.0	FISSILE
621.4	CARBONDALE	HERRIN	COAL	4.8	62.3	3-IN CLY PTG
616.7	CARBONDALE		UNDERCLAY	1.0	67.0	

MAPID: 05700983000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 12 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NW
 QUADRANGLE: CANTON LONGITUDE: -90.003964 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.611594 DATE COLLECTED: 10 / 26 / 1955
 SURFACE ELEVATION (FT.): 688.0 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.0			UNCONSOLIDATED	28.0	0.0	
660.0	MODESTO	FARMINGTON	SHALE	3.5	28.0	
656.5	MODESTO		BLACK SHALE	1.5	31.5	BS MODESTO;BK,FIS
655.0	CARBONDALE	DANVILLE	COAL	1.5	33.0	
653.5	CARBONDALE		UNDERCLAY	2.0	34.5	
651.5	CARBONDALE		SHALE	7.5	36.5	
644.0	CARBONDALE		SANDY SHALE	23.0	44.0	
621.0	CARBONDALE	BRERETON	LIMESTONE	0.5	67.0	
620.5	CARBONDALE	HERRIN	COAL WITH SHALE	4.6	67.5	3-IN CLY PTG
615.9	CARBONDALE		UNDERCLAY	1.9	72.1	

MAPID: 05701765000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 12 QUARTERS/FOOTAGES: 42' S line, 100' E line of SW SW
 QUADRANGLE: BANNER LONGITUDE: -90.004689 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.597258 DATE COLLECTED: 10 / 6 / 1960
 SURFACE ELEVATION (FT.): 677.7 LOGGED (FT.): 114.2 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: SPRINGFIELD DATA FROM CS MAP 6-115A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.7			UNCONSOLIDATED	20.0	0.0	
657.7	CARBONDALE		SHALE	14.8	20.0	
642.9	CARBONDALE	ANNA	BLACK SHALE	1.0	34.8	FISSILE
641.9	CARBONDALE	HERRIN	COAL WITH SHALE	4.4	35.8	2-IN PTG
637.4	CARBONDALE		UNDERCLAY	0.3	40.3	
637.2	CARBONDALE		UNCLASSIFIED	69.2	40.5	
568.0	CARBONDALE	SPRINGFIELD	COAL	4.5	109.7	

MAPID: 05760168000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 12 QUARTERS/FOOTAGES: 0' S line, 165' W line
 QUADRANGLE: CANTON LONGITUDE: -90.008546 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.597181 DATE COLLECTED: 3 / 12 / 1961
 SURFACE ELEVATION (FT.): 672.0 LOGGED (FT.): 39.8 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.7	CARBONDALE	HERRIN	COAL	3.5	36.3	

MAPID: 05760170000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 12 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NE
 QUADRANGLE: BANNER LONGITUDE: -89.989619 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.607738 DATE COLLECTED: 3 / 12 / 1961
 SURFACE ELEVATION (FT.): 678.0 LOGGED (FT.): 53.2 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.4	CARBONDALE	HERRIN	COAL	4.6	48.6	

MAPID: 05760171000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 12 QUARTERS/FOOTAGES: NE

QUADRANGLE: BANNER LONGITUDE: -89.99443 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.607818 DATE COLLECTED: 3 / 12 / 1961

SURFACE ELEVATION (FT.): 671.0 LOGGED (FT.): 115.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
628.3	CARBONDALE	HERRIN	COAL	3.0	42.7	
625.3	CARBONDALE		UNCLASSIFIED	65.2	45.7	
560.2	CARBONDALE	SPRINGFIELD	COAL	4.2	110.8	

MAPID: 05786649000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 12 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE NE

QUADRANGLE: BANNER LONGITUDE: -89.99434 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.611413 DATE COLLECTED: 10 / 26 / 1955

SURFACE ELEVATION (FT.): 683.7 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE B423 WELL TYPE: Coal Test

COMMENT: NORRIS BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.7	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
673.7	PLEISTOCENE		CLAY	24.0	10.0	
649.7	SHELBURN		SHALE	3.0	34.0	
646.7	SHELBURN		SANDSTONE	1.5	37.0	
645.2	SHELBURN		SHALE	23.5	38.5	SANDY
621.7	CARBONDALE	ANNA	BLACK SHALE	0.3	62.0	
621.4	CARBONDALE	HERRIN	COAL	1.2	62.3	GOOD
620.3	CARBONDALE	HERRIN	COAL	4.6	63.4	GOOD
615.7	CARBONDALE		UNDERCLAY	1.0	68.0	

MAPID: 05700985000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 13 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NE
 QUADRANGLE: CANTON LONGITUDE: -89.994895 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.589734 DATE COLLECTED: 0 / 0 / 1955
 SURFACE ELEVATION (FT.): 621.5 LOGGED (FT.): 61.2 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.5			UNCONSOLIDATED	14.0	0.0	
607.5	CARBONDALE		SHALE	30.0	14.0	
577.5	CARBONDALE		BLACK SHALE	3.0	44.0	
574.5	CARBONDALE		SHALE	8.0	47.0	
566.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	55.0	FISSILE
565.5	CARBONDALE	SPRINGFIELD	COAL	4.2	56.0	
561.3	CARBONDALE		UNDERCLAY	1.0	60.2	

MAPID: 05700986000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 13 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE
 QUADRANGLE: CANTON LONGITUDE: -89.990114 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.589684 DATE COLLECTED: 0 / 0 / 1955
 SURFACE ELEVATION (FT.): 622.7 LOGGED (FT.): 64.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.7			UNCONSOLIDATED	25.0	0.0	
597.7	CARBONDALE		SHALE	29.5	25.0	
568.2	CARBONDALE	ST. DAVID	LIMESTONE	0.8	54.5	
567.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	55.3	FISSILE
565.7	CARBONDALE	SPRINGFIELD	COAL	4.6	57.0	
561.1	CARBONDALE		UNDERCLAY	2.4	61.6	

MAPID: 05700988000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 13 QUARTERS/FOOTAGES: 165' N line, 0' W line of NW NE

QUADRANGLE: CANTON LONGITUDE: -89.999523 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.596631 DATE COLLECTED: 10 / 24 / 1955

SURFACE ELEVATION (FT.): 688.9 LOGGED (FT.): 34.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.9			UNCONSOLIDATED	22.0	0.0	
666.9	CARBONDALE		SHALE	1.0	22.0	
665.9	CARBONDALE	ANNA	BLACK SHALE	3.0	23.0	FISSILE
662.9	CARBONDALE	HERRIN	COAL WITH SHALE	3.9	26.0	3-IN CLY PTG
659.0	CARBONDALE		UNDERCLAY	4.1	29.9	

MAPID: 05700990000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 13 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NE

QUADRANGLE: CANTON LONGITUDE: -89.999594 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.593436 DATE COLLECTED: 10 / 24 / 1955

SURFACE ELEVATION (FT.): 648.7 LOGGED (FT.): 84.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.7			UNCONSOLIDATED	4.0	0.0	
644.7	CARBONDALE		SHALE	2.0	4.0	
642.7	CARBONDALE	HERRIN	COAL	0.5	6.0	
642.2	CARBONDALE		SHALE	25.0	6.5	
617.2	CARBONDALE		SANDSTONE	3.0	31.5	
614.2	CARBONDALE		SANDY SHALE	41.0	34.5	
573.2	CARBONDALE	ST. DAVID	LIMESTONE	1.0	75.5	
572.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	76.5	FISSILE
570.7	CARBONDALE	SPRINGFIELD	COAL	4.3	78.0	
566.4	CARBONDALE		UNDERCLAY	1.7	82.3	

MAPID: 05700991000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 13 QUARTERS/FOOTAGES: 0' N line, 0' W line
 QUADRANGLE: CANTON LONGITUDE: -90.009144 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.597189 DATE COLLECTED: 10 / 27 / 1955
 SURFACE ELEVATION (FT.): 669.0 LOGGED (FT.): 103.4 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.0			UNCONSOLIDATED	78.0	0.0	
591.0	CARBONDALE		SHALE	3.0	78.0	DARK
588.0	CARBONDALE		SHALE	12.0	81.0	
576.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	93.0	
575.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	94.0	FISSILE
573.0	CARBONDALE	SPRINGFIELD	COAL	4.4	96.0	
568.6	CARBONDALE		UNDERCLAY	3.0	100.4	

MAPID: 05700992000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 13 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE NE
 QUADRANGLE: CANTON LONGITUDE: -89.994697 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.597035 DATE COLLECTED: 10 / 24 / 1955
 SURFACE ELEVATION (FT.): 601.2 LOGGED (FT.): 44.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
601.2			UNCONSOLIDATED	5.0	0.0	
596.2	CARBONDALE		SANDY SHALE	28.5	5.0	
567.7	CARBONDALE	ST. DAVID	LIMESTONE	0.8	33.5	
566.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	34.3	FISSILE
565.4	CARBONDALE	SPRINGFIELD	COAL	4.6	35.8	
560.9	CARBONDALE		UNDERCLAY	3.7	40.3	

MAPID: 05700993000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 13 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NE

QUADRANGLE: CANTON LONGITUDE: -89.989998 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.593332 DATE COLLECTED: 10 / 21 / 1955

SURFACE ELEVATION (FT.): 651.9 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.9			UNCONSOLIDATED	30.0	0.0	
621.9	CARBONDALE		SHALE	3.0	30.0	
618.9	CARBONDALE		SANDSTONE	4.0	33.0	
614.9	CARBONDALE		SHALE	40.0	37.0	
574.9	CARBONDALE	ST. DAVID	LIMESTONE	1.0	77.0	
573.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	78.0	FISSILE
572.5	CARBONDALE	SPRINGFIELD	COAL	4.5	79.4	
568.0	CARBONDALE		UNDERCLAY	2.1	83.9	

MAPID: 05786650000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 13 QUARTERS/FOOTAGES: 0' N line, 0' W line of NW NW

QUADRANGLE: CANTON LONGITUDE: -90.009144 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.597189 DATE COLLECTED: 10 / 27 / 1955

SURFACE ELEVATION (FT.): 669.0 LOGGED (FT.): 103.4 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE B217 WELL TYPE: Coal Test

COMMENT: NORRIS BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.0	PLEISTOCENE		CLAY	15.0	0.0	
654.0	PLEISTOCENE		CLAY	45.0	15.0	
609.0	PLEISTOCENE		WOOD	1.0	60.0	
608.0	PLEISTOCENE		CLAY	17.0	61.0	
591.0	CARBONDALE		DARK SHALE	3.0	78.0	
588.0	CARBONDALE		GRAY SHALE	12.0	81.0	HARD
576.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	93.0	HARD
575.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	94.0	
573.0	CARBONDALE	SPRINGFIELD	COAL	4.4	96.0	GOOD
568.6	CARBONDALE		UNDERCLAY	3.0	100.4	

MAPID: 05786652000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 13 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE NE
 QUADRANGLE: BANNER LONGITUDE: -89.989998 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.593332 DATE COLLECTED: 10 / 21 / 1955
 SURFACE ELEVATION (FT.): 651.9 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE B175 WELL TYPE: Coal Test
 COMMENT: NORRIS BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.9	PLEISTOCENE		CLAY	12.0	0.0	
639.9	PLEISTOCENE		CLAY	18.0	12.0	
621.9	CARBONDALE		SHALE	3.0	30.0	HARD
618.9	CARBONDALE		SANDSTONE	4.0	33.0	HARD
614.9	CARBONDALE		SHALE	40.0	37.0	HARD
574.9	CARBONDALE	ST. DAVID	LIMESTONE	1.0	77.0	CAP ROCK
573.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	78.0	
572.5	CARBONDALE	SPRINGFIELD	COAL	4.5	79.4	GOOD
568.0	CARBONDALE		UNDERCLAY	2.1	83.9	

MAPID: 05700995000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 14 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW NE
 QUADRANGLE: CANTON LONGITUDE: -90.018719 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.593495 DATE COLLECTED: 10 / 25 / 1955
 SURFACE ELEVATION (FT.): 681.2 LOGGED (FT.): 124.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.2			UNCONSOLIDATED	96.0	0.0	
585.2	CARBONDALE		SHALE	20.0	96.0	
565.2	CARBONDALE	ST. DAVID	LIMESTONE	0.5	116.0	
564.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.4	116.5	FISSILE
562.3	CARBONDALE	SPRINGFIELD	COAL	4.4	118.9	
557.9	CARBONDALE		UNDERCLAY	0.7	123.3	

MAPID: 05700997000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 14 QUARTERS/FOOTAGES: 0' N line, 0' W line
 QUADRANGLE: CANTON LONGITUDE: -90.028189 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.59712 DATE COLLECTED: 10 / 31 / 1955
 SURFACE ELEVATION (FT.): 693.9 LOGGED (FT.): 51.2 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.9			UNCONSOLIDATED	40.0	0.0	
653.9	CARBONDALE		SHALE	1.5	40.0	
652.4	CARBONDALE	BRERETON	LIMESTONE	2.5	41.5	
649.9	CARBONDALE	ANNA	BLACK SHALE	1.0	44.0	
648.9	CARBONDALE	HERRIN	COAL WITH SHALE	3.2	45.0	4-IN CLY PTG
645.7	CARBONDALE		ROCK	3.0	48.2	

MAPID: 05786651000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 14 QUARTERS/FOOTAGES: 0' N line, 0' W line of NW NW
 QUADRANGLE: CANTON LONGITUDE: -90.028189 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.59712 DATE COLLECTED: 10 / 31 / 1955
 SURFACE ELEVATION (FT.): 693.9 LOGGED (FT.): 51.2 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE B209 WELL TYPE: Coal Test
 COMMENT: NORRIS BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.9	PLEISTOCENE		CLAY	27.0	0.0	
666.9	PLEISTOCENE		CLAY	13.0	27.0	
653.9	SHELBURN		SHALE	1.5	40.0	
652.4	SHELBURN	BRERETON	LIMESTONE	2.5	41.5	HARD
649.9	CARBONDALE	ANNA	BLACK SHALE	1.0	44.0	
648.9	CARBONDALE	HERRIN	COAL	1.5	45.0	GOOD
647.4	CARBONDALE	HERRIN	CLAYSTONE	0.3	46.5	SOFT
647.1	CARBONDALE	HERRIN	COAL	1.3	46.8	GOOD
645.7	CARBONDALE		UNDERCLAY	3.0	48.2	

MAPID: 05786653000C VERSION: 1

PROJECT: NCRDS92

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 14 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW NE
 QUADRANGLE: CANTON LONGITUDE: -90.018719 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.593495 DATE COLLECTED: 10 / 25 / 1955
 SURFACE ELEVATION (FT.): 681.2 LOGGED (FT.): 124.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE B163 WELL TYPE: Coal Test
 COMMENT: NORRIS BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.2	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0	
669.2	PLEISTOCENE		CLAY	84.0	12.0	
585.2	CARBONDALE		SHALE	20.0	96.0	
565.2	CARBONDALE	ST. DAVID	LIMESTONE	0.5	116.0	
564.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.4	116.5	
562.3	CARBONDALE	SPRINGFIELD	COAL	4.4	118.9	GOD
557.9	CARBONDALE		UNDERCLAY	0.7	123.3	

MAPID: 05701768000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 16 QUARTERS/FOOTAGES: 18' N line, 69' E line
 QUADRANGLE: CANTON LONGITUDE: -90.047396 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.596901 DATE COLLECTED: 1 / 10 / 1961
 SURFACE ELEVATION (FT.): 682.8 LOGGED (FT.): 100.7 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: SPRINGFIELD DATA FROM ADJACENT HOLE 2

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.8			UNCONSOLIDATED	15.0	0.0	
667.8	CARBONDALE		SHALE	8.5	15.0	
659.3	CARBONDALE		SHALE	1.0	23.5	DARK
658.3	CARBONDALE	BRERETON	LIMESTONE	5.5	24.5	
652.8	CARBONDALE	HERRIN	COAL	4.0	30.0	3-IN PTG
648.8	CARBONDALE		UNDERCLAY	0.5	34.0	
648.3	CARBONDALE		UNCLASSIFIED	61.9	34.5	
586.4	CARBONDALE	SPRINGFIELD	COAL	4.3	96.4	

MAPID: 05701769000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 16 QUARTERS/FOOTAGES: 6' N line, 1200' E line

QUADRANGLE: CANTON LONGITUDE: -90.051486 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.596946 DATE COLLECTED: 1 / 11 / 1961

SURFACE ELEVATION (FT.): 673.5 LOGGED (FT.): 113.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: SPRINGFIELD DATA FROM ADJACENT HOLE 1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
673.5			UNCONSOLIDATED	11.0	0.0	
662.5	CARBONDALE		SANDSTONE	4.5	11.0	
658.0	CARBONDALE		GRAY SHALE	8.5	15.5	
649.5	CARBONDALE		SHALE	2.0	24.0	DARK
647.5	CARBONDALE	BRERETON	LIMESTONE	1.5	26.0	"ROCK"
646.0	CARBONDALE	HERRIN	COAL WITH SHALE	4.4	27.5	3-IN PTG
641.6	CARBONDALE		UNDERCLAY	0.3	31.9	
641.3	CARBONDALE		UNCLASSIFIED	76.6	32.2	
564.7	CARBONDALE	SPRINGFIELD	COAL	4.8	108.8	

MAPID: 05701770000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 16 QUARTERS/FOOTAGES: 18' S line, 18' E line of NE

QUADRANGLE: CANTON LONGITUDE: -90.047361 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.589665 DATE COLLECTED: 1 / 11 / 1961

SURFACE ELEVATION (FT.): 694.0 LOGGED (FT.): 107.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: SPRINGFIELD DATA FROM CS MAP 6-115A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.0			UNCONSOLIDATED	17.5	0.0	
676.5	CARBONDALE		SANDSTONE	6.5	17.5	
670.0	CARBONDALE		GRAY SHALE	10.0	24.0	
660.0	CARBONDALE		SHALE	1.8	34.0	DARK
658.2	CARBONDALE	HERRIN	COAL	2.7	35.8	2-IN PTG
655.5	CARBONDALE		UNCLASSIFIED	64.3	38.5	
591.2	CARBONDALE	SPRINGFIELD	COAL	4.3	102.8	

MAPID: 05701771000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 16 QUARTERS/FOOTAGES: 23' S line, 7' E line of NW

QUADRANGLE: CANTON LONGITUDE: -90.056767 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.589704 DATE COLLECTED: 1 / 12 / 1961

SURFACE ELEVATION (FT.): 695.0 LOGGED (FT.): 33.4 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.0			UNCONSOLIDATED	24.8	0.0	
670.2	CARBONDALE		SHALE	1.2	24.8	
669.0	CARBONDALE	BRERETON	LIMESTONE	3.1	26.0	
665.9	CARBONDALE	HERRIN	COAL WITH SHALE	3.1	29.1	1-IN PTG
662.8	CARBONDALE		UNDERCLAY	1.3	32.2	

MAPID: 05701772000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 16 QUARTERS/FOOTAGES: 1320' S line, 39' E line of NE

QUADRANGLE: CANTON LONGITUDE: -90.047364 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.593257 DATE COLLECTED: 1 / 12 / 1961

SURFACE ELEVATION (FT.): 696.2 LOGGED (FT.): 40.9 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.2			UNCONSOLIDATED	16.0	0.0	
680.2	CARBONDALE		SANDSTONE	14.0	16.0	
666.2	CARBONDALE		GRAY SHALE	4.0	30.0	
662.2	CARBONDALE		SHALE	2.0	34.0	DARK
660.2	CARBONDALE	BRERETON	LIMESTONE	0.6	36.0	"CAP ROCK"
659.6	CARBONDALE	HERRIN	COAL	3.3	36.6	
656.3	CARBONDALE		UNDERCLAY	1.0	39.9	

MAPID: 05701773000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 16 QUARTERS/FOOTAGES: 1320' S line, 30' W line of SE NE

QUADRANGLE: CANTON LONGITUDE: -90.05183 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.593269 DATE COLLECTED: 1 / 12 / 1961

SURFACE ELEVATION (FT.): 694.1 LOGGED (FT.): 118.2 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: SPRINGFIELD DATA FROM ADJACENT HOLE 5

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.1			UNCONSOLIDATED	23.0	0.0	
671.1	CARBONDALE		SANDSTONE	9.0	23.0	
662.1	CARBONDALE		SANDY SHALE	9.0	32.0	
653.1	CARBONDALE		GRAY SHALE	3.3	41.0	
649.8	CARBONDALE		SHALE	0.3	44.3	DARK
649.6	CARBONDALE	HERRIN	COAL	3.0	44.5	
646.6	CARBONDALE		UNDERCLAY	0.5	47.5	
646.1	CARBONDALE		UNCLASSIFIED	65.8	48.0	
580.3	CARBONDALE	SPRINGFIELD	COAL	4.3	113.8	

MAPID: 05760135000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 16 QUARTERS/FOOTAGES: 0' S line, 0' W line

QUADRANGLE: CANTON LONGITUDE: -90.066406 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.582336 DATE COLLECTED: 3 / 12 / 1961

SURFACE ELEVATION (FT.): 684.0 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
612.5	CARBONDALE	SPRINGFIELD	COAL	4.5	71.5	

MAPID: 05760136000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 16 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SW

QUADRANGLE: CANTON LONGITUDE: -90.061669 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.582323 DATE COLLECTED: 3 / 12 / 1961

SURFACE ELEVATION (FT.): 684.0 LOGGED (FT.): 76.8 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
612.0	CARBONDALE	SPRINGFIELD	COAL	4.8	72.0	

MAPID: 05760141000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 16 **QUARTERS/FOOTAGES:** 0' N line, 0' W line
QUADRANGLE: CANTON **LONGITUDE:** -90.065976 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.596997 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 712.0 **LOGGED (FT.):** 130.5 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.3	CARBONDALE	HERRIN	COAL	1.5	56.7	ERODED
653.8	CARBONDALE		UNCLASSIFIED	67.3	58.2	
586.5	CARBONDALE	SPRINGFIELD	COAL	5.0	125.5	

MAPID: 05760142000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 16 **QUARTERS/FOOTAGES:** 0' N line, 0' E line of NW NW
QUADRANGLE: CANTON **LONGITUDE:** -90.061267 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.596986 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 705.0 **LOGGED (FT.):** 116.9 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0	CARBONDALE	HERRIN	COAL	1.2	43.0	ERODED
660.8	CARBONDALE		UNCLASSIFIED	67.7	44.2	
593.2	CARBONDALE	SPRINGFIELD	COAL	5.1	111.8	

MAPID: 05760143000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 16 **QUARTERS/FOOTAGES:** 0' N line, 0' E line of NW
QUADRANGLE: CANTON **LONGITUDE:** -90.056561 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.596975 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 695.0 **LOGGED (FT.):** 117.3 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.7	CARBONDALE	HERRIN	COAL	2.4	44.3	PROB ERODED
648.3	CARBONDALE		UNCLASSIFIED	65.2	46.7	
583.2	CARBONDALE	SPRINGFIELD	COAL	5.4	111.8	

MAPID: 05760144000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 16 **QUARTERS/FOOTAGES:** 0' S line, 0' W line of NW NW
QUADRANGLE: CANTON **LONGITUDE:** -90.066083 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.59333 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 704.0 **LOGGED (FT.):** 116.3 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
593.7	CARBONDALE	SPRINGFIELD	COAL	5.9	110.3	

MAPID: 05760145000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 16 **QUARTERS/FOOTAGES:** NW
QUADRANGLE: CANTON **LONGITUDE:** -90.061367 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.593319 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 706.0 **LOGGED (FT.):** 114.4 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.6	CARBONDALE	HERRIN	COAL	0.5	41.4	ERODED
664.1	CARBONDALE		UNCLASSIFIED	67.1	41.9	
597.0	CARBONDALE	SPRINGFIELD	COAL	5.4	109.0	

MAPID: 05760146000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 16 **QUARTERS/FOOTAGES:** SW
QUADRANGLE: CANTON **LONGITUDE:** -90.061568 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.585987 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 692.0 **LOGGED (FT.):** 74.8 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.8	CARBONDALE	SPRINGFIELD	COAL	4.7	70.2	

MAPID: 05760160000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 16 **QUARTERS/FOOTAGES:** 0' N line, 0' E line of NW SW
QUADRANGLE: CANTON **LONGITUDE:** -90.061468 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.589654 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 702.0 **LOGGED (FT.):** 105.7 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.5	CARBONDALE	HERRIN	COAL	3.3	32.5	
666.2	CARBONDALE		UNCLASSIFIED	65.4	35.8	
600.8	CARBONDALE	SPRINGFIELD	COAL	4.5	101.2	

MAPID: 05760162000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 16 **QUARTERS/FOOTAGES:** 0' N line, 0' W line of SW
QUADRANGLE: CANTON **LONGITUDE:** -90.066191 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.589665 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 697.0 **LOGGED (FT.):** 109.9 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.8	CARBONDALE	HERRIN	COAL	3.8	34.2	
659.0	CARBONDALE		UNCLASSIFIED	67.3	38.0	
591.7	CARBONDALE	SPRINGFIELD	COAL	4.7	105.3	

MAPID: 05760128000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 17 **QUARTERS/FOOTAGES:** 0' N line, 0' W line of NE NE
QUADRANGLE: CANTON **LONGITUDE:** -90.070691 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.59695 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 706.0 **LOGGED (FT.):** 112.3 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.4	CARBONDALE	HERRIN	COAL	2.6	39.6	ERODED
663.8	CARBONDALE		UNCLASSIFIED	65.7	42.2	
598.2	CARBONDALE	SPRINGFIELD	COAL	4.5	107.8	

MAPID: 05760147000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 17 **QUARTERS/FOOTAGES:** SE
QUADRANGLE: CANTON **LONGITUDE:** -90.070988 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.585967 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 680.0 **LOGGED (FT.):** 98.5 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.5	CARBONDALE	SPRINGFIELD	COAL	4.0	94.5	

MAPID: 05760148000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 17 **QUARTERS/FOOTAGES:** 0' S line, 0' E line of NE SE
QUADRANGLE: CANTON **LONGITUDE:** -90.066298 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.586001 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 690.0 **LOGGED (FT.):** 85.5 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
609.3	CARBONDALE	SPRINGFIELD	COAL	4.8	80.7	

MAPID: 05760149000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 17 **QUARTERS/FOOTAGES:** NE
QUADRANGLE: CANTON **LONGITUDE:** -90.070792 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.593291 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 701.0 **LOGGED (FT.):** 117.8 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.0			ROCK	113.5	0.0	UNDIFF,CTNS HERRIN
587.5	CARBONDALE	SPRINGFIELD	COAL	4.3	113.5	

MAPID: 05760161000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 17 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE SE

QUADRANGLE: CANTON LONGITUDE: -90.070888 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.589629 DATE COLLECTED: 3 / 12 / 1961

SURFACE ELEVATION (FT.): 688.0 LOGGED (FT.): 114.7 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.0	CARBONDALE	HERRIN	COAL	1.0	42.0	ERODED
645.0	CARBONDALE		UNCLASSIFIED	67.2	43.0	
577.8	CARBONDALE	SPRINGFIELD	COAL	4.5	110.2	

MAPID: 05723335000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 19 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SE

QUADRANGLE: CANTON LONGITUDE: -90.090281 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.567683 DATE COLLECTED: 1 / 25 / 1956

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-53-D

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.0			UNCONSOLIDATED	34.2	0.0	
645.8	CARBONDALE		SHALE	45.0	34.2	
600.8	CARBONDALE		SANDSTONE	0.8	79.2	
600.0	CARBONDALE	SPRINGFIELD	COAL	4.5	80.0	
595.5	CARBONDALE		UNDERCLAY	0.5	84.5	

MAPID: 05701954000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 20 QUARTERS/FOOTAGES: 330' N line, 1830' E line

QUADRANGLE: CANTON LONGITUDE: -90.073042 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.581383 DATE COLLECTED: 11 / 13 / 1973

SURFACE ELEVATION (FT.): 682.0 LOGGED (FT.): 84.0 LOG TYPE: Survey Core Study

SOURCE: CONSOLIDATION COAL CO. WELL TYPE: Coal Test

COMMENT: 1,4

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.0			UNCONSOLIDATED	49.5	0.0	
632.5	CARBONDALE		SHALE	2.1	49.5	
630.4	CARBONDALE		SILTSTONE	1.8	51.6	
628.6	CARBONDALE		SHALE	7.1	53.4	
621.5	CARBONDALE		SHALE	3.3	60.5	FSLFS
618.2	CARBONDALE		SHALE	10.6	63.8	
607.6	CARBONDALE		COAL	0.1	74.4	
607.5	CARBONDALE		SHALE	1.4	74.5	
606.1	CARBONDALE	ST. DAVID	LIMESTONE	0.6	75.9	
605.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	76.4	BK,CALC,FSLFS
603.3	CARBONDALE	SPRINGFIELD	COAL	4.7	78.7	NBB
598.6	CARBONDALE		UNDERCLAY	0.3	83.4	
598.3	CARBONDALE		LIMESTONE	0.3	83.7	

MAPID: 05721998000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 20 QUARTERS/FOOTAGES: 30' N line, 2080' W line of NW

QUADRANGLE: CANTON LONGITUDE: -90.077594 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.58218 DATE COLLECTED: 7 / 2 / 1975

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 517.5 LOG TYPE: Drillers Log

SOURCE: CHURCHILL, DONALD G. WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.0			UNCONSOLIDATED	23.5	0.0	
656.5	CARBONDALE		SHALE	51.8	23.5	SDY TP 1/2
604.7	CARBONDALE	ST. DAVID	LIMESTONE	0.9	75.3	
603.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.1	76.2	FISSILE
601.7	CARBONDALE	SPRINGFIELD	COAL	5.0	78.3	
596.7	CARBONDALE		UNDERCLAY	1.0	83.3	
595.7	CARBONDALE		LIMESTONE	0.9	84.3	GRAY
594.8	CARBONDALE		SHALE	17.4	85.2	GY,INTRLAMD W/ SS
577.4	CARBONDALE	HOUCHIN CREEK	COAL	0.4	102.6	
577.0	CARBONDALE		LIMESTONE	0.5	103.0	
576.5	CARBONDALE		SHALE	56.5	103.5	GY,SDY,INTRLAMD W/ SS
520.0	CARBONDALE		SHALE	11.0	160.0	GY TO DK GY
509.0	CARBONDALE	OAK GROVE	LIMESTONE	2.7	171.0	SHY
506.3	CARBONDALE		DARK GRAY SHALE	2.9	173.7	
503.4	CARBONDALE	OAK GROVE	LIMESTONE	1.4	176.6	
502.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.2	178.0	FISSILE
498.8	CARBONDALE		GRAY SHALE	7.6	181.2	
491.2	CARBONDALE	COLCHESTER	COAL	2.6	188.8	BASE OF CARBONDALE
488.6	SPOON		UNDERCLAY	1.3	191.4	
487.3	SPOON		SANDSTONE	3.5	192.7	GRAY
483.8	SPOON		SHALE	19.6	196.2	GY,INTRLAMD W/ SS
464.2	SPOON		LIMESTONE	0.2	215.8	GRAY
464.0	SPOON		SHALE	4.8	216.0	GY,INTRLAMD W/ SS
459.2	SPOON	WILEY	COAL	0.2	220.8	
459.0	SPOON		GRAY SHALE	1.4	221.0	
457.6	SPOON	SEAHORNE LS	LIMESTONE	1.2	222.4	GRAY
456.4	SPOON		SHALE	15.7	223.6	GY,INTRLAMD W/ SS
440.7	SPOON		BLACK SHALE	0.6	239.3	FISSILE
440.1	SPOON	HERMON	COAL	4.3	239.9	
435.8	SPOON		SHALE	27.8	244.2	GY TO DK GY,INTRLAMD W/ SS
408.0	SPOON	SEVILLE	LIMESTONE	2.2	272.0	
405.8	SPOON		SHALE	2.2	274.2	DARK
403.6	SPOON	ROCK ISLAND	COAL	2.8	276.4	SHY
400.8	SPOON		SHALE	10.7	279.2	BS SPOON;GY
390.1	ABBOTT	BERNADOTTE	SANDSTONE	17.3	289.9	SHY
372.8	ABBOTT		GRAY SHALE	2.4	307.2	
370.4	ABBOTT		LIMESTONE	1.8	309.6	GRAY
368.6	ABBOTT		SANDSTONE	2.2	311.4	GRAY

366.4	ABBOTT	SHALE	88.5	313.6	BS PENNSYLVANIAN;GY;SDY
277.9	ABBOTT	LIMESTONE	115.4	402.1	MISSISSIPPIAN

MAPID: 05723341000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 20 **QUARTERS/FOOTAGES:** 0' S line, 0' W line of SE SW
QUADRANGLE: CANTON **LONGITUDE:** -90.080776 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.567639 **DATE COLLECTED:** 12 / 3 / 1955
SURFACE ELEVATION (FT.): 670.0 **LOGGED (FT.):** 72.5 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: LOCATION FROM CS MAP 6-53-E

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	29.5	0.0	
640.5	CARBONDALE		SHALE	15.2	29.5	
625.3	CARBONDALE		SANDSTONE	21.0	44.7	
604.3	CARBONDALE		SHALE	0.8	65.7	DARK
603.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	66.5	FISSILE
602.3	CARBONDALE	SPRINGFIELD	COAL	3.2	67.7	
599.2	CARBONDALE		UNDERCLAY	1.0	70.8	
598.2	CARBONDALE		ROCK	0.7	71.8	

MAPID: 05760123000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 21 **QUARTERS/FOOTAGES:** 330' S line, 0' W line of NW NW
QUADRANGLE: CANTON **LONGITUDE:** -90.066441 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.579594 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 665.0 **LOGGED (FT.):** 67.0 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
602.7	CARBONDALE	SPRINGFIELD	COAL	4.7	62.3	

MAPID: 05760124000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 21 **QUARTERS/FOOTAGES:** NW
QUADRANGLE: CANTON **LONGITUDE:** -90.061708 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.57867 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 682.0 **LOGGED (FT.):** 68.8 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.0	MODESTO		ROCK	36.4	0.0	BS MODESTO,UNDIFF
645.6	CARBONDALE	DANVILLE	COAL	1.4	36.4	
644.2	CARBONDALE		UNCLASSIFIED	38.7	37.8	
605.4	CARBONDALE	HERRIN	COAL	1.9	76.6	

MAPID: 05760154000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 21 **QUARTERS/FOOTAGES:** 0' N line, 0' W line of NE
QUADRANGLE: CANTON **LONGITUDE:** -90.056928 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.582309 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 681.0 **LOGGED (FT.):** 74.9 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.6	CARBONDALE	SPRINGFIELD	COAL	4.5	70.4	

MAPID: 05760155000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 21 **QUARTERS/FOOTAGES:** NE NE
QUADRANGLE: CANTON **LONGITUDE:** -90.049832 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.58046 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 670.0 **LOGGED (FT.):** 68.9 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
605.6	CARBONDALE	SPRINGFIELD	COAL	4.5	64.4	

MAPID: 05760156000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 21 **QUARTERS/FOOTAGES:** 0' N line, 0' E line
QUADRANGLE: CANTON **LONGITUDE:** -90.047447 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.582281 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 681.0 **LOGGED (FT.):** 188.8 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.7	CARBONDALE	SPRINGFIELD	COAL	4.7	80.3	
596.0	CARBONDALE		UNCLASSIFIED	101.3	85.0	
494.7	CARBONDALE	COLCHESTER	COAL	2.6	186.3	BASE OF CARBONDALE

MAPID: 05760157000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 21 **QUARTERS/FOOTAGES:** 0' S line, 0' W line of NW NE
QUADRANGLE: CANTON **LONGITUDE:** -90.056964 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.578656 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 670.0 **LOGGED (FT.):** 66.8 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
608.1	CARBONDALE	SPRINGFIELD	COAL	4.8	61.9	

MAPID: 05760158000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 4E **SECTION:** 21 **QUARTERS/FOOTAGES:** NW
QUADRANGLE: CANTON **LONGITUDE:** -90.061708 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.57867 **DATE COLLECTED:** 3 / 12 / 1961
SURFACE ELEVATION (FT.): 682.0 **LOGGED (FT.):** 68.8 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
617.9	CARBONDALE	SPRINGFIELD	COAL	4.7	64.1	

MAPID: 05760159000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 21 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NE

QUADRANGLE: CANTON LONGITUDE: -90.047476 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.578628 DATE COLLECTED: 3 / 12 / 1961

SURFACE ELEVATION (FT.): 658.0 LOGGED (FT.): 83.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
579.1	CARBONDALE	SPRINGFIELD	COAL	4.6	78.9	

MAPID: 05700675000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 27 QUARTERS/FOOTAGES: 990' S line, 1650' E line of NE SW SE

QUADRANGLE: CANTON LONGITUDE: -90.039335 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.557798 DATE COLLECTED: 0 / 0 / 1870

SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 1727.0 LOG TYPE: Drillers Log

SOURCE: MILLER, J. P., AND CO. WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0			UNCONSOLIDATED	40.0	0.0	
615.0	CARBONDALE		SHALE	40.0	40.0	
575.0	CARBONDALE	SPRINGFIELD	COAL	4.5	80.0	
570.5	CARBONDALE		SHALE	15.0	84.5	
555.5	CARBONDALE		LIMESTONE	20.0	99.5	
535.5	CARBONDALE		SHALE	61.0	119.5	
474.5	CARBONDALE		BLACK SHALE	15.0	180.5	FISSILE
459.5	CARBONDALE		SHALE	30.0	195.5	
429.5	CARBONDALE	COLCHESTER	COAL	1.5	225.5	BASE OF CARBONDALE
428.0	SPOON		UNDERCLAY	6.0	227.0	
422.0	SPOON		SHALE	15.0	233.0	
407.0	SPOON		ROCK	5.0	248.0	"FLINT"
402.0	SPOON		SHALE	35.0	253.0	
367.0	SPOON		BLACK SHALE	7.0	288.0	FISSILE
360.0	SPOON	ROCK ISLAND	COAL	1.0	295.0	BASE OF SPOON
359.0	ABBOTT		BLACK SHALE	12.0	296.0	FISSILE
347.0	ABBOTT		SHALE	50.0	308.0	BASE OF PENNSYLVANIAN
297.0			ROCK	1369.0	358.0	MISSISSIPPIAN AND OLDER

MAPID: 05700675000C VERSION: 2

PROJECT: NCRDS87

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 27 QUARTERS/FOOTAGES: 990' S line, 1650' E line of NE SW SE

QUADRANGLE: CANTON LONGITUDE: -90.039335 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 40.557798 DATE COLLECTED:

SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 308.0 LOG TYPE: Drillers Log

SOURCE: J.P. MILLER & CO. WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0			UNCONSOLIDATED	22.0	0.0	
633.0	CARBONDALE		UNCLASSIFIED	58.0	22.0	
575.0	CARBONDALE	SPRINGFIELD	COAL	4.5	80.0	UNCERTAIN CORRELATION
570.5	CARBONDALE		UNCLASSIFIED	141.0	84.5	
429.5	CARBONDALE	COLCHESTER	COAL	1.5	225.5	UNCERTAIN CORRELATION
428.0			UNDERCLAY	6.0	227.0	
422.0			UNCLASSIFIED	55.0	233.0	
367.0			BLACK SHALE	7.0	288.0	
360.0			COAL	1.0	295.0	
359.0			UNCLASSIFIED	12.0	296.0	

MAPID: 05723346000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 29 QUARTERS/FOOTAGES: NE NW

QUADRANGLE: CANTON LONGITUDE: -90.078456 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.565846 DATE COLLECTED: 12 / 5 / 1955

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 60.3 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAEER COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-53-E

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	25.7	0.0	
644.3	CARBONDALE		SHALE	4.0	25.7	
640.3	CARBONDALE		SANDSTONE	20.8	29.7	
619.5	CARBONDALE		SHALE	2.0	50.5	DARK
617.5	CARBONDALE	ST. DAVID	LIMESTONE	0.5	52.5	"CAP ROCK"
617.0	CARBONDALE		SHALE	1.9	53.0	DARK
615.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	54.9	FISSILE
614.2	CARBONDALE	SPRINGFIELD	COAL	4.4	55.8	

MAPID: 05723351000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NE NW
 QUADRANGLE: CANTON LONGITUDE: -90.078503 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.564035 DATE COLLECTED: 12 / 5 / 1955
 SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 68.5 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-53-E

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	14.0	0.0	
646.0	CARBONDALE		SHALE	29.2	14.0	
616.8	CARBONDALE		SANDSTONE	17.8	43.2	
599.0	CARBONDALE		SHALE	0.7	61.0	
598.3	CARBONDALE	ST. DAVID	LIMESTONE	0.3	61.7	"CAP ROCK"
598.0	CARBONDALE		SHALE	0.5	62.0	DARK
597.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	62.5	FISSILE
596.2	CARBONDALE	SPRINGFIELD	COAL	4.7	63.8	

MAPID: 05723352000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NE SE NW
 QUADRANGLE: CANTON LONGITUDE: -90.077362 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.562231 DATE COLLECTED: 12 / 9 / 1955
 SURFACE ELEVATION (FT.): 647.0 LOGGED (FT.): 56.8 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-53-E

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
647.0			UNCONSOLIDATED	14.0	0.0	
633.0	CARBONDALE		SHALE	33.8	14.0	
599.2	CARBONDALE		SANDSTONE	1.2	47.8	
598.0	CARBONDALE		SHALE	0.7	49.0	DARK
597.3	CARBONDALE	ST. DAVID	LIMESTONE	0.3	49.7	"CAP ROCK"
597.0	CARBONDALE		SHALE	0.8	50.0	DARK
596.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	50.8	FISSILE
595.0	CARBONDALE	SPRINGFIELD	COAL	4.8	52.0	

MAPID: 05723356000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 30 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW NW
 QUADRANGLE: CANTON LONGITUDE: -90.103597 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.564256 DATE COLLECTED: 1 / 18 / 1956
 SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 49.0 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-53-D

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	15.0	0.0	
655.0	CARBONDALE		SHALE	24.5	15.0	
630.5	CARBONDALE		SHALE	1.2	39.5	DARK
629.3	CARBONDALE	ST. DAVID	LIMESTONE	0.8	40.7	"CAP ROCK"
628.5	CARBONDALE		SHALE	0.8	41.5	DARK
627.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	42.3	FISSILE
626.2	CARBONDALE	SPRINGFIELD	COAL	4.8	43.8	
621.5	CARBONDALE		UNDERCLAY	0.5	48.5	

MAPID: 05723360000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 30 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NW SW NE
 QUADRANGLE: CANTON LONGITUDE: -90.093959 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.564122 DATE COLLECTED: 1 / 20 / 1956
 SURFACE ELEVATION (FT.): 682.0 LOGGED (FT.): 59.5 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-53-D

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.0			UNCONSOLIDATED	15.5	0.0	
666.5	CARBONDALE		SHALE	22.2	15.5	
644.3	CARBONDALE		SANDSTONE	15.5	37.7	
628.8	CARBONDALE	SPRINGFIELD	COAL	2.3	53.2	
626.5	CARBONDALE		SHALE	4.0	55.5	

MAPID: 05723362000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 30 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NW NE
 QUADRANGLE: CANTON LONGITUDE: -90.090055 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.565874 DATE COLLECTED: 1 / 24 / 1956
 SURFACE ELEVATION (FT.): 682.0 LOGGED (FT.): 79.8 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-53-D

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.0			UNCONSOLIDATED	39.0	0.0	
643.0	CARBONDALE		SHALE	27.5	39.0	
615.5	CARBONDALE		SANDSTONE	2.0	66.5	
613.5	CARBONDALE		SHALE	6.0	68.5	
607.5	CARBONDALE		SHALE	0.5	74.5	DARK
607.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.3	75.0	FISSILE
606.7	CARBONDALE	SPRINGFIELD	COAL	4.5	75.3	

MAPID: 05723365000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 30 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NW NE NW
 QUADRANGLE: CANTON LONGITUDE: -90.098685 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.565997 DATE COLLECTED: 2 / 7 / 1956
 SURFACE ELEVATION (FT.): 690.0 LOGGED (FT.): 82.3 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-53-D

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.0			UNCONSOLIDATED	23.5	0.0	
666.5	CARBONDALE		SHALE	52.5	23.5	
614.0	CARBONDALE		SANDSTONE	2.3	76.0	
611.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.3	78.3	FISSILE
611.3	CARBONDALE	SPRINGFIELD	COAL	2.7	78.7	
608.7	CARBONDALE		UNDERCLAY	1.0	81.3	

MAPID: 05723368000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 31 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE SW
 QUADRANGLE: CANTON LONGITUDE: -90.095569 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.542312 DATE COLLECTED: 4 / 16 / 1956
 SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 91.4 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-53-F

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.0			UNCONSOLIDATED	27.8	0.0	
652.2	CARBONDALE		SHALE	7.7	27.8	
644.5	CARBONDALE		SANDSTONE	11.5	35.5	
633.0	CARBONDALE		SHALE	25.8	47.0	
607.2	CARBONDALE		SHALE	4.0	72.8	DARK
603.2	CARBONDALE		SHALE	4.5	76.8	
598.7	CARBONDALE	ST. DAVID	LIMESTONE	2.4	81.3	"ROCK"
596.2	CARBONDALE		SHALE	2.1	83.8	DARK
594.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	85.8	FISSILE
593.1	CARBONDALE	SPRINGFIELD	COAL	4.5	86.9	

MAPID: 05723371000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 31 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE SE NW
 QUADRANGLE: CANTON LONGITUDE: -90.095504 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.547803 DATE COLLECTED: 6 / 4 / 1956
 SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 86.4 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-53-F

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	29.0	0.0	
641.0	CARBONDALE		SHALE	9.4	29.0	
631.6	CARBONDALE		SANDSTONE	3.1	38.4	
628.5	CARBONDALE		SHALE	24.0	41.5	
604.5	CARBONDALE		SHALE	6.0	65.5	DARK
598.5	CARBONDALE		SHALE	7.0	71.5	
591.5	CARBONDALE	ST. DAVID	LIMESTONE	0.5	78.5	"ROCK"
591.0	CARBONDALE		SHALE	0.5	79.0	DARK
590.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	79.5	FISSILE
588.7	CARBONDALE	SPRINGFIELD	COAL	5.1	81.3	

MAPID: 05723372000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 31 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE NW NW SW
 QUADRANGLE: CANTON LONGITUDE: -90.102696 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.545085 DATE COLLECTED: 6 / 7 / 1956
 SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 82.8 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.0			UNCONSOLIDATED	18.5	0.0	
656.5	CARBONDALE		SHALE	44.0	18.5	
612.5	CARBONDALE		SHALE	1.5	62.5	DARK
611.0	CARBONDALE		SHALE	11.4	64.0	
599.6	CARBONDALE	ST. DAVID	LIMESTONE	0.6	75.4	"ROCK"
599.0	CARBONDALE		SHALE	1.1	76.0	DARK
597.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	77.1	FISSILE
596.9	CARBONDALE	SPRINGFIELD	COAL	4.7	78.1	

MAPID: 05723378000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 32 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW
 QUADRANGLE: CANTON LONGITUDE: -90.085976 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.545927 DATE COLLECTED: 1 / 17 / 1955
 SURFACE ELEVATION (FT.): 678.0 LOGGED (FT.): 98.3 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-53-G

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.0			UNCONSOLIDATED	25.5	0.0	
652.5	CARBONDALE		SANDY SHALE	25.5	25.5	
627.0	CARBONDALE		SANDSTONE	15.0	51.0	
612.0	CARBONDALE		SANDY SHALE	16.0	66.0	
596.0	CARBONDALE		SHALE	3.5	82.0	DARK
592.5	CARBONDALE		SHALE	2.9	85.5	
589.6	CARBONDALE	ST. DAVID	LIMESTONE	1.6	88.4	"ROCK"
588.0	CARBONDALE		SHALE	1.8	90.0	DARK
586.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	91.8	FISSILE
584.7	CARBONDALE	SPRINGFIELD	COAL	5.0	93.3	

MAPID: 0572338000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 32 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE SE SE NW

QUADRANGLE: CANTON LONGITUDE: -90.076496 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.546815 DATE COLLECTED: 3 / 10 / 1955

SURFACE ELEVATION (FT.): 676.0 LOGGED (FT.): 80.4 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.0			UNCONSOLIDATED	33.0	0.0	
643.0	CARBONDALE		SANDSTONE	5.0	33.0	
638.0	CARBONDALE		SHALE	25.8	38.0	
612.2	CARBONDALE		SHALE	3.3	63.8	DARK
609.0	CARBONDALE		SHALE	4.5	67.0	
604.5	CARBONDALE		SHALE	1.3	71.5	DARK
603.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	72.8	"ROCK"
602.8	CARBONDALE		SHALE	0.8	73.2	DARK
602.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	74.0	FISSILE
600.8	CARBONDALE	SPRINGFIELD	COAL	5.3	75.2	

MAPID: 05723384000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 32 QUARTERS/FOOTAGES: NW

QUADRANGLE: CANTON LONGITUDE: -90.081192 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.549548 DATE COLLECTED: 3 / 31 / 1955

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 98.3 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0			UNCONSOLIDATED	35.0	0.0	
627.0	CARBONDALE		SHALE	5.5	35.0	
621.5	CARBONDALE		SANDSTONE	5.0	40.5	
616.5	CARBONDALE		SHALE	35.5	45.5	
581.0	CARBONDALE		SHALE	3.0	81.0	DARK
578.0	CARBONDALE		SHALE	4.8	84.0	
573.2	CARBONDALE	ST. DAVID	LIMESTONE	1.2	88.8	"ROCK"
572.0	CARBONDALE		SHALE	2.0	90.0	DARK
570.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	92.0	FISSILE
568.4	CARBONDALE	SPRINGFIELD	COAL	4.8	93.6	

MAPID: 05723385000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 32 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NW

QUADRANGLE: CANTON LONGITUDE: -90.081245 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.545917 DATE COLLECTED: 4 / 4 / 1955

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 82.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNCONSOLIDATED	30.0	0.0	
640.0	CARBONDALE		SHALE	33.5	30.0	
606.5	CARBONDALE		SHALE	3.5	63.5	DARK
603.0	CARBONDALE		SHALE	5.0	67.0	
598.0	CARBONDALE		SHALE	1.2	72.0	DARK
596.8	CARBONDALE	ST. DAVID	LIMESTONE	1.0	73.2	"ROCK"
595.8	CARBONDALE		SHALE	1.1	74.2	DARK
594.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	75.3	FISSILE
593.4	CARBONDALE	SPRINGFIELD	COAL	4.4	76.6	
589.0	CARBONDALE		UNDERCLAY	1.0	81.0	

MAPID: 05723395000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 32 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NW NE NW

QUADRANGLE: CANTON LONGITUDE: -90.079953 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.55318 DATE COLLECTED: 5 / 4 / 1955

SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 110.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0			UNCONSOLIDATED	24.0	0.0	
631.0	CARBONDALE		SHALE	29.1	24.0	
601.9	CARBONDALE	SPRINGFIELD	COAL	4.6	53.1	
597.3	CARBONDALE		SHALE	35.2	57.7	
562.2	CARBONDALE		LIMESTONE	2.2	92.8	
560.0	CARBONDALE		SHALE	10.5	95.0	
549.5	CARBONDALE		LIMESTONE	4.5	105.5	

MAPID: 05723401000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 7N 4E

SECTION: 32

QUARTERS/FOOTAGES: 0' N line, 0' W line

QUADRANGLE: CANTON

LONGITUDE: -90.085889

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.553184

DATE COLLECTED: 5 / 16 / 1955

SURFACE ELEVATION (FT.): 662.0

LOGGED (FT.): 98.0

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0			UNCONSOLIDATED	41.0	0.0	
621.0	CARBONDALE		SANDSTONE	4.2	41.0	
616.8	CARBONDALE		SHALE	35.0	45.2	
581.8	CARBONDALE		SHALE	2.8	80.2	DARK
579.0	CARBONDALE		SHALE	7.2	83.0	
571.8	CARBONDALE	ST. DAVID	LIMESTONE	0.7	90.2	"ROCK"
571.2	CARBONDALE		SHALE	1.8	90.8	DARK
569.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	92.6	FISSILE
568.4	CARBONDALE	SPRINGFIELD	COAL	4.4	93.6	

MAPID: 05723403000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 7N 4E

SECTION: 32

QUARTERS/FOOTAGES: 0' N line, 0' W line of SW NW SW NW

QUADRANGLE: CANTON

LONGITUDE: -90.085945

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.548648

DATE COLLECTED: 5 / 19 / 1955

SURFACE ELEVATION (FT.): 665.0

LOGGED (FT.): 101.8

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	33.5	0.0	
631.5	CARBONDALE		SHALE	23.0	33.5	
608.5	CARBONDALE		SANDSTONE	2.5	56.5	
606.0	CARBONDALE		SHALE	25.5	59.0	
580.5	CARBONDALE		SHALE	3.9	84.5	DARK
576.6	CARBONDALE		SHALE	4.2	88.4	
572.4	CARBONDALE	ST. DAVID	LIMESTONE	0.7	92.6	"ROCK"
571.7	CARBONDALE		SHALE	2.7	93.3	DARK
569.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	95.9	FISSILE
568.0	CARBONDALE	SPRINGFIELD	COAL	4.8	97.0	

MAPID: 05723405000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 32 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE SE NE NW

QUADRANGLE: CANTON LONGITUDE: -90.076436 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.550451 DATE COLLECTED: 5 / 23 / 1955

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	12.5	0.0	
652.5	CARBONDALE		SHALE	8.8	12.5	
643.7	CARBONDALE		SANDSTONE	2.5	21.3	
641.2	CARBONDALE		SHALE	9.0	23.8	
632.2	CARBONDALE		SHALE	1.4	32.8	DARK
630.7	CARBONDALE	ST. DAVID	LIMESTONE	1.0	34.3	"ROCK"
629.7	CARBONDALE		SHALE	0.8	35.3	DARK
629.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	36.0	FISSILE
627.9	CARBONDALE	SPRINGFIELD	COAL	6.0	37.1	
621.9	CARBONDALE		UNDERCLAY	3.8	43.1	
618.2	CARBONDALE		SHALE	13.2	46.8	

MAPID: 05700676000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 34 QUARTERS/FOOTAGES: 265' N line, 765' W line

QUADRANGLE: CANTON LONGITUDE: -90.045125 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.552519 DATE COLLECTED: 0 / 0 / 1895

SURFACE ELEVATION (FT.): 607.0 LOGGED (FT.): 1646.0 LOG TYPE: Drillers Log

SOURCE: GRAY, W. H., AND BRO. WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
607.0			UNCONSOLIDATED	14.0	0.0	
593.0	CARBONDALE		SHALE	114.0	14.0	
479.0	CARBONDALE	COLCHESTER	COAL	1.0	128.0	BASE OF CARBONDALE
478.0	SPOON		UNDERCLAY	6.0	129.0	
472.0	SPOON		SHALE	57.0	135.0	
415.0	SPOON	ROCK ISLAND	COAL	2.0	192.0	
413.0	ABBOTT		BLACK SHALE	12.0	194.0	BK; FIS
401.0	ABBOTT		SHALE	55.0	206.0	BASE OF PENNSYLVANIAN
346.0			ROCK	1385.0	261.0	MISSISSIPPIAN AND OLDER

MAPID: 05786602000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 35 QUARTERS/FOOTAGES: 0' S line, 0' W line of SW SW
 QUADRANGLE: CANTON LONGITUDE: -90.028848 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.538846 DATE COLLECTED: 7 / 31 / 1936
 SURFACE ELEVATION (FT.): 645.0 LOGGED (FT.): 63.3 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 51 WELL TYPE: Coal Test
 COMMENT: SE CANTON BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.0	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0	
625.0	PLEISTOCENE		CLAY & GRAVEL	13.5	20.0	
611.5	CARBONDALE		MICACEOUS SHALE	21.0	33.5	
590.5	CARBONDALE	ST. DAVID	LIMESTONE	1.8	54.5	CAP ROCK
588.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	56.3	
586.4	CARBONDALE	SPRINGFIELD	COAL	4.7	58.6	

MAPID: 05786610000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 35 QUARTERS/FOOTAGES: 1' S line, 10' W line of SE SW
 QUADRANGLE: CANTON LONGITUDE: -90.024075 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.538873 DATE COLLECTED: 7 / 0 / 1936
 SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 75.6 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 52 WELL TYPE: Coal Test
 COMMENT: SE CANTON BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0	PLEISTOCENE		UNCONSOLIDATED	23.5	0.0	
626.5	PLEISTOCENE		CLAY & GRAVEL	14.5	23.5	
612.0	CARBONDALE		GRAY SHALE	29.0	38.0	
583.0	CARBONDALE	ST. DAVID	LIMESTONE	0.9	67.0	CAPROCK
582.1	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	67.9	
579.7	CARBONDALE	SPRINGFIELD	COAL	4.8	70.3	

MAPID: 05786611000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 35 QUARTERS/FOOTAGES: 5' S line, 1' W line of NE SE
 QUADRANGLE: CANTON LONGITUDE: -90.014591 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.542545 DATE COLLECTED: 8 / 0 / 1936
 SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 66.6 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 66 WELL TYPE: Coal Test
 COMMENT: SE CANTON BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0	PLEISTOCENE		UNCONSOLIDATED	22.0	0.0	
618.0	PLEISTOCENE		CLAY & GRAVEL	11.0	22.0	
607.0	CARBONDALE		MICACEOUS SHALE	19.5	33.0	
587.5	CARBONDALE		DARK SHALE	6.3	52.5	
581.2	CARBONDALE	ST. DAVID	LIMESTONE	1.1	58.8	CAPROCK
580.1	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	59.9	
577.8	CARBONDALE	SPRINGFIELD	COAL	4.4	62.2	

MAPID: 057EBM00536Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 4E SECTION: 36 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SE
 QUADRANGLE: CANTON LONGITUDE: -90.000403 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.542608 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 614.0 LOGGED (FT.): 58.9 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: BOOK OF LOGS FROM BUCKHEART MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
614.0			UNCONSOLIDATED	45.0	0.0	
569.0	CARBONDALE		SANDY SHALE	6.0	45.0	
563.0	CARBONDALE	ST. DAVID	LIMESTONE	0.6	51.0	"ROCK"
562.4	CARBONDALE		SHALE	1.0	51.6	
561.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	52.6	FISSILE
560.3	CARBONDALE	SPRINGFIELD	COAL	4.8	53.7	
555.6	CARBONDALE		UNDERCLAY	0.5	58.4	

MAPID: 057EBM05101Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 7N 4E

SECTION: 36

QUARTERS/FOOTAGES: NW SW SE SW

QUADRANGLE: CANTON

LONGITUDE: -90.004568

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.540326

DATE COLLECTED:

SURFACE ELEVATION (FT.): 616.0

LOGGED (FT.): 50.1

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: BOOK OF LOGS FROM BUCKHEART MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
616.0			UNCONSOLIDATED	10.0	0.0	
606.0	CARBONDALE		SANDY SHALE	31.9	10.0	
574.1	CARBONDALE	ST. DAVID	LIMESTONE	0.6	41.9	"ROCK"
573.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	42.5	FISSILE
571.0	CARBONDALE	SPRINGFIELD	COAL	4.5	45.0	
566.5	CARBONDALE		UNDERCLAY	0.6	49.5	

MAPID: 05786604000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON

TWP/RNG: 7N 5E

SECTION: 1

QUARTERS/FOOTAGES: 5' S line, 50' W line of SW NW

QUADRANGLE: BANNER

LONGITUDE: -89.892013

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 40.618307

DATE COLLECTED: 10 / 3 / 1946

SURFACE ELEVATION (FT.): 650.0

LOGGED (FT.): 67.5

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 309

WELL TYPE: Coal Test

COMMENT: BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0	PLEISTOCENE		UNKNOWN	59.4	0.0	
590.6	CARBONDALE	ST. DAVID	LIMESTONE	0.6	59.4	CAP ROCK
590.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	60.0	
588.5	CARBONDALE	SPRINGFIELD	COAL	5.5	61.5	GOOD
583.0	CARBONDALE		UNDERCLAY	0.5	67.0	

MAPID: 05760183000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 7N 5E

SECTION: 5

QUARTERS/FOOTAGES: 250' N line, 80' E line of NW SE

QUADRANGLE: BANNER

LONGITUDE: -89.954264

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.618153

DATE COLLECTED: 3 / 14 / 1961

SURFACE ELEVATION (FT.): 670.0

LOGGED (FT.): 164.0

LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAEER COAL CO.

WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
508.0	CARBONDALE	SPRINGFIELD	COAL	2.0	162.0	

MAPID: 05760184000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 5 **QUARTERS/FOOTAGES:** 110' N line, 100' E line
QUADRANGLE: BANNER **LONGITUDE:** -89.949404 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.625176 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 678.0 **LOGGED (FT.):** 109.2 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.0	CARBONDALE	HERRIN	COAL	1.2	108.0	

MAPID: 05760185000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 5 **QUARTERS/FOOTAGES:** 110' N line, 80' W line of NE
QUADRANGLE: BANNER **LONGITUDE:** -89.958225 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.625247 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 682.0 **LOGGED (FT.):** 103.2 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
582.0	CARBONDALE	HERRIN	COAL	3.2	100.0	

MAPID: 05760186000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 5 **QUARTERS/FOOTAGES:** 110' N line, 110' E line of NW NE
QUADRANGLE: BANNER **LONGITUDE:** -89.954177 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.625216 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 669.0 **LOGGED (FT.):** 103.2 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
566.5	CARBONDALE	HERRIN	COAL	0.7	102.5	

MAPID: 05700999000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 6 QUARTERS/FOOTAGES: 165' N line, 0' W line of SE SE
 QUADRANGLE: BANNER LONGITUDE: -89.973649 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.614943 DATE COLLECTED: 11 / 15 / 1955
 SURFACE ELEVATION (FT.): 668.8 LOGGED (FT.): 74.3 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.8			UNCONSOLIDATED	50.0	0.0	
618.8	CARBONDALE		SANDY SHALE	19.5	50.0	
599.3	CARBONDALE	HERRIN	COAL	2.8	69.5	PROB ERODED
596.5	CARBONDALE		UNDERCLAY	2.0	72.3	

MAPID: 05701001000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 6 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW
 QUADRANGLE: BANNER LONGITUDE: -89.989107 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.622396 DATE COLLECTED: 11 / 11 / 1955
 SURFACE ELEVATION (FT.): 693.7 LOGGED (FT.): 93.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.7			UNCONSOLIDATED	44.0	0.0	
649.7	CARBONDALE		SANDY SHALE	41.0	44.0	
608.7	CARBONDALE		ROCK	1.0	85.0	"RASH"
607.7	CARBONDALE	HERRIN	COAL	4.8	86.0	4-IN CLY PTG
602.9	CARBONDALE		UNDERCLAY	2.2	90.8	

MAPID: 05701002000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 6 QUARTERS/FOOTAGES: NW
 QUADRANGLE: BANNER LONGITUDE: -89.983856 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.622351 DATE COLLECTED: 11 / 11 / 1955
 SURFACE ELEVATION (FT.): 689.5 LOGGED (FT.): 92.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.5			UNCONSOLIDATED	59.0	0.0	
630.5	CARBONDALE		SANDSTONE	1.5	59.0	
629.0	CARBONDALE		SANDY SHALE	24.0	60.5	
605.0	CARBONDALE		SHALE	1.1	84.5	
603.9	CARBONDALE	HERRIN	COAL	3.8	85.6	4-IN "SOFT" BND
600.1	CARBONDALE		UNDERCLAY	2.6	89.4	

MAPID: 05701003000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 6 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NE

QUADRANGLE: BANNER LONGITUDE: -89.978609 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.622306 DATE COLLECTED: 11 / 16 / 1955

SURFACE ELEVATION (FT.): 684.9 LOGGED (FT.): 86.2 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.9			UNCONSOLIDATED	75.0	0.0	
609.9	CARBONDALE		SANDSTONE	0.5	75.0	
609.4	CARBONDALE		SHALE	5.5	75.5	DK.SOFT
603.9	CARBONDALE	HERRIN	COAL	4.2	81.0	
599.7	CARBONDALE		UNDERCLAY	1.0	85.2	

MAPID: 05701004000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 6 QUARTERS/FOOTAGES: 660' N line, 0' E line of SW SW

QUADRANGLE: BANNER LONGITUDE: -89.984179 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.613596 DATE COLLECTED: 11 / 14 / 1955

SURFACE ELEVATION (FT.): 611.3 LOGGED (FT.): 75.2 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
611.3			UNCONSOLIDATED	15.0	0.0	
596.3	CARBONDALE		SANDY SHALE	46.0	15.0	
550.3	CARBONDALE	ST. DAVID	LIMESTONE	0.5	61.0	
549.8	CARBONDALE		SHALE	6.5	61.5	DARK
543.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	68.0	FISSILE
541.8	CARBONDALE	SPRINGFIELD	COAL	4.2	69.5	
537.6	CARBONDALE		UNDERCLAY	1.5	73.7	

MAPID: 05701007000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 6 QUARTERS/FOOTAGES: SW

QUADRANGLE: BANNER LONGITUDE: -89.984106 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.615591 DATE COLLECTED: 11 / 15 / 1955

SURFACE ELEVATION (FT.): 675.2 LOGGED (FT.): 66.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.2			UNCONSOLIDATED	30.0	0.0	
645.2	CARBONDALE		SANDSTONE	2.0	30.0	
643.2	CARBONDALE		SANDY SHALE	28.0	32.0	
615.2	CARBONDALE	HERRIN	COAL	3.9	60.0	
611.3	CARBONDALE		UNDERCLAY	2.1	63.9	

MAPID: 05701008000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 6 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE SE

QUADRANGLE: BANNER LONGITUDE: -89.968382 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.615612 DATE COLLECTED: 0 / 0 / 1955

SURFACE ELEVATION (FT.): 666.0 LOGGED (FT.): 46.6 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.0			UNCONSOLIDATED	37.0	0.0	
629.0	CARBONDALE	BRERETON	LIMESTONE	2.5	37.0	
626.5	CARBONDALE		SHALE	0.5	39.5	"CLAY"
626.0	CARBONDALE	HERRIN	COAL WITH SHALE	3.6	40.0	4-IN CLY PTG
622.4	CARBONDALE		UNDERCLAY	3.0	43.6	

MAPID: 05701009000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 6 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE SW

QUADRANGLE: BANNER LONGITUDE: -89.983972 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.619231 DATE COLLECTED: 11 / 12 / 1955

SURFACE ELEVATION (FT.): 681.0 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.0			UNCONSOLIDATED	46.0	0.0	
635.0	CARBONDALE		SANDY SHALE	33.0	46.0	
602.0	CARBONDALE	HERRIN	COAL WITH SHALE	3.9	79.0	3-IN CLY PTG
598.1	CARBONDALE		UNDERCLAY	3.1	82.9	

MAPID: 05701012000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 6 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW

QUADRANGLE: BANNER LONGITUDE: -89.98923 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.618911 DATE COLLECTED: 11 / 14 / 1955

SURFACE ELEVATION (FT.): 679.0 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
679.0			UNCONSOLIDATED	30.0	0.0
649.0	CARBONDALE		SHALE	19.0	30.0
630.0	CARBONDALE	BRERETON	LIMESTONE	7.4	49.0
622.6	CARBONDALE		SANDY SHALE	9.6	56.4
613.0	CARBONDALE		ROCK	2.5	66.0
610.5	CARBONDALE		SHALE	0.5	68.5
610.0	CARBONDALE	HERRIN	COAL	3.7	69.0
606.3	CARBONDALE		UNDERCLAY	2.3	72.7

MAPID: 05760187000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 6 QUARTERS/FOOTAGES: 210' N line, 170' E line of NW NE

QUADRANGLE: BANNER LONGITUDE: -89.973863 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.625123 DATE COLLECTED: 3 / 14 / 1961

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 118.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
565.5	CARBONDALE	SPRINGFIELD	COAL	4.0	114.5

MAPID: 05760188000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 6 QUARTERS/FOOTAGES: 210' N line, 130' E line of SE SW

QUADRANGLE: BANNER LONGITUDE: -89.979359 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.615017 DATE COLLECTED: 3 / 14 / 1961

SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 143.3 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
610.0	CARBONDALE	HERRIN	COAL	5.0	65.0
605.0	CARBONDALE		UNCLASSIFIED	69.3	70.0
535.7	CARBONDALE	SPRINGFIELD	COAL	4.0	139.3

MAPID: 05760189000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 6 **QUARTERS/FOOTAGES:** 80' N line, 220' E line of SW
QUADRANGLE: BANNER **LONGITUDE:** -89.979531 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.619017 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 673.0 **LOGGED (FT.):** 82.0 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
605.5	CARBONDALE	SPRINGFIELD	COAL	4.5	67.5	

MAPID: 05760195000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 6 **QUARTERS/FOOTAGES:** 150' N line, 90' W line of NE
QUADRANGLE: BANNER **LONGITUDE:** -89.978167 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.62534 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 683.0 **LOGGED (FT.):** 100.0 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
583.0	CARBONDALE	SPRINGFIELD	COAL	0.0	100.0	

MAPID: 05786657000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 6 **QUARTERS/FOOTAGES:** 1320' N line, 0' W line of NW NE
QUADRANGLE: BANNER **LONGITUDE:** -89.978615 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.622116 **DATE COLLECTED:** 11 / 16 / 1955
SURFACE ELEVATION (FT.): 684.9 **LOGGED (FT.):** 86.2 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE C555 **WELL TYPE:** Coal Test
COMMENT: NORRIS BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.9	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
674.9	PLEISTOCENE		SAND & GRAVEL	20.0	10.0	
654.9	PLEISTOCENE		CLAY	45.0	30.0	
609.9	SHELBURN		SANDSTONE	0.5	75.0	HARD
609.4	CARBONDALE	ANNA	DARK SHALE	5.5	75.5	SOFT
603.9	CARBONDALE	HERRIN	COAL	4.2	81.0	GOOD
599.7	CARBONDALE		UNDERCLAY	1.0	85.2	

MAPID: 05786658000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 6 QUARTERS/FOOTAGES: 666' N line, 0' E line of SW SW
 QUADRANGLE: BANNER LONGITUDE: -89.984182 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.613579 DATE COLLECTED: 11 / 14 / 1955
 SURFACE ELEVATION (FT.): 611.3 LOGGED (FT.): 75.2 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE C428 WELL TYPE: Coal Test
 COMMENT: AYRSHIRE BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
611.3	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
605.3	PLEISTOCENE		CLAY	9.0	6.0	
596.3	CARBONDALE		SANDY SHALE	46.0	15.0	
550.3	CARBONDALE		LIMESTONE	0.5	61.0	
549.8	CARBONDALE		DARK SHALE	6.5	61.5	
543.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	68.0	
541.8	CARBONDALE	SPRINGFIELD	COAL	4.2	69.5	GOOD
537.6	CARBONDALE		UNDERCLAY	1.5	73.7	

MAPID: 05701013000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 0' N line, 0' E line
 QUADRANGLE: BANNER LONGITUDE: -89.968528 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.611973 DATE COLLECTED: 10 / 13 / 1955
 SURFACE ELEVATION (FT.): 581.6 LOGGED (FT.): 69.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
581.6			UNCONSOLIDATED	18.0	0.0	
563.6	CARBONDALE		SANDY SHALE	42.0	18.0	
521.6	CARBONDALE	ST. DAVID	LIMESTONE	1.0	60.0	
520.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	61.0	FISSILE
518.7	CARBONDALE	SPRINGFIELD	COAL	3.8	62.9	
514.8	CARBONDALE		UNDERCLAY	2.3	66.8	

MAPID: 05701014000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 0' S line, 0' W line
 QUADRANGLE: BANNER LONGITUDE: -89.989865 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.597513 DATE COLLECTED: 10 / 19 / 1955
 SURFACE ELEVATION (FT.): 618.0 LOGGED (FT.): 56.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
618.0			UNCONSOLIDATED	18.0	0.0	
600.0	CARBONDALE		SHALE	30.0	18.0	
570.0	CARBONDALE		BLACK SHALE	1.5	48.0	FISSILE
568.5	CARBONDALE	ST. DAVID	LIMESTONE	1.5	49.5	
567.0	CARBONDALE	SPRINGFIELD	COAL	3.8	51.0	
563.2	CARBONDALE		UNDERCLAY	1.2	54.8	

MAPID: 05701015000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 330' S line, 0' W line of SE NE
 QUADRANGLE: BANNER LONGITUDE: -89.973933 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.605642 DATE COLLECTED: 10 / 14 / 1955
 SURFACE ELEVATION (FT.): 561.7 LOGGED (FT.): 26.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
561.7			UNCONSOLIDATED	18.0	0.0	
543.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	18.0	FISSILE
542.7	CARBONDALE	SPRINGFIELD	COAL	4.2	19.0	
538.5	CARBONDALE		UNDERCLAY	2.8	23.2	

MAPID: 05701016000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE

QUADRANGLE: BANNER LONGITUDE: -89.968721 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.604732 DATE COLLECTED: 10 / 13 / 1955

SURFACE ELEVATION (FT.): 661.4 LOGGED (FT.): 126.6 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.4			UNCONSOLIDATED	24.0	0.0	
637.4	CARBONDALE		SHALE	18.0	24.0	
619.4	CARBONDALE	HERRIN	COAL	1.0	42.0	
618.4	CARBONDALE		UNDERCLAY	2.0	43.0	
616.4	CARBONDALE		SANDY SHALE	8.0	45.0	
608.4	CARBONDALE		SANDSTONE	3.0	53.0	
605.4	CARBONDALE		SANDY SHALE	53.0	56.0	
552.4	CARBONDALE		BLACK SHALE	10.0	109.0	
542.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	119.0	FISSILE
540.8	CARBONDALE	SPRINGFIELD	COAL	4.0	120.6	
536.8	CARBONDALE		UNDERCLAY	2.0	124.6	

MAPID: 05701017000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 0' N line, 1320' E line

QUADRANGLE: BANNER LONGITUDE: -89.973306 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.611965 DATE COLLECTED: 10 / 14 / 1955

SURFACE ELEVATION (FT.): 675.9 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.9			UNCONSOLIDATED	64.0	0.0	
611.9	CARBONDALE		SHALE	2.3	64.0	
609.6	CARBONDALE	ANNA	BLACK SHALE	0.7	66.3	FISSILE
608.9	CARBONDALE	HERRIN	COAL	4.5	67.0	2-IN CLY PTG
604.4	CARBONDALE		UNDERCLAY	2.5	71.5	

MAPID: 05701018000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 0' N line, 2640' E line

QUADRANGLE: BANNER LONGITUDE: -89.978085 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.611957 DATE COLLECTED: 10 / 14 / 1955

SURFACE ELEVATION (FT.): 595.4 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
595.4			UNCONSOLIDATED	33.0	0.0	
562.4	CARBONDALE		SANDY SHALE	12.0	33.0	
550.4	CARBONDALE		BLACK SHALE	7.0	45.0	
543.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	52.0	FISSILE
541.4	CARBONDALE	SPRINGFIELD	COAL	4.4	54.0	
537.0	CARBONDALE		UNDERCLAY	1.6	58.4	

MAPID: 05701021000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 330' S line, 0' W line of NE

QUADRANGLE: BANNER LONGITUDE: -89.979171 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.60564 DATE COLLECTED: 10 / 13 / 1955

SURFACE ELEVATION (FT.): 570.0 LOGGED (FT.): 26.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.0			UNCONSOLIDATED	17.5	0.0	
552.5	CARBONDALE	ST. DAVID	LIMESTONE	0.8	17.5	
551.7	CARBONDALE		SHALE	1.1	18.3	
550.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	19.3	FISSILE
550.0	CARBONDALE	SPRINGFIELD	COAL	4.3	20.0	
545.7	CARBONDALE		UNDERCLAY	1.7	24.3	

MAPID: 05701023000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NW

QUADRANGLE: BANNER LONGITUDE: -89.979099 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.608344 DATE COLLECTED: 10 / 14 / 1955

SURFACE ELEVATION (FT.): 568.5 LOGGED (FT.): 24.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
568.5			UNCONSOLIDATED	12.0	0.0	
556.5	CARBONDALE		SHALE	5.0	12.0	DARK
551.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	17.0	FISSILE
550.5	CARBONDALE	SPRINGFIELD	COAL	4.2	18.0	
546.3	CARBONDALE		UNDERCLAY	1.8	22.2	

MAPID: 05701025000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NE

QUADRANGLE: BANNER LONGITUDE: -89.968626 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.608353 DATE COLLECTED: 10 / 13 / 1955

SURFACE ELEVATION (FT.): 653.1 LOGGED (FT.): 46.3 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.1			UNCONSOLIDATED	38.0	0.0	
615.1	CARBONDALE		SHALE	0.5	38.0	DARK
614.6	CARBONDALE	BRERETON	LIMESTONE	2.5	38.5	
612.1	CARBONDALE		SHALE	2.0	41.0	
610.1	CARBONDALE	HERRIN	COAL	2.3	43.0	
607.8	CARBONDALE		UNDERCLAY	1.0	45.3	

MAPID: 05701026000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: NE

QUADRANGLE: BANNER LONGITUDE: -89.973861 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.608348 DATE COLLECTED: 10 / 14 / 1955

SURFACE ELEVATION (FT.): 671.9 LOGGED (FT.): 63.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.9			UNCONSOLIDATED	40.0	0.0	
631.9	CARBONDALE		SHALE	14.0	40.0	
617.9	CARBONDALE		SANDSTONE	1.0	54.0	
616.9	CARBONDALE		SHALE	1.0	55.0	DARK
615.9	CARBONDALE	HERRIN	COAL WITH SHALE	5.1	56.0	4-IN SMUT BND
610.8	CARBONDALE		UNDERCLAY	1.9	61.1	

MAPID: 05701030000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SW

QUADRANGLE: BANNER LONGITUDE: -89.989771 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.601119 DATE COLLECTED: 10 / 19 / 1955

SURFACE ELEVATION (FT.): 676.4 LOGGED (FT.): 44.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.4			UNCONSOLIDATED	35.7	0.0	
640.7	CARBONDALE	BRERETON	LIMESTONE	0.5	35.7	
640.2	CARBONDALE		SHALE	0.8	36.2	
639.4	CARBONDALE	HERRIN	COAL	4.0	37.0	2-IN CLY BND
635.4	CARBONDALE		UNDERCLAY	3.0	41.0	

MAPID: 05701643000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 165' S line, 165' W line of NE NE SW SE

QUADRANGLE: BANNER LONGITUDE: -89.974779 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.600664 DATE COLLECTED: 5 / 2 / 1955

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 45.9 LOG TYPE: Drillers Log

SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
660.0			UNCONSOLIDATED	11.0	0.0
649.0	CARBONDALE		SANDY SHALE	10.3	11.0
638.7	CARBONDALE		SHALE	16.1	21.3
622.7	CARBONDALE	BRERETON	LIMESTONE	3.5	37.3
619.2	CARBONDALE	ENERGY	SHALE	0.6	40.8
618.6	CARBONDALE	HERRIN	COAL	4.5	41.4

MAPID: 05701646000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 0' N line, 245' W line of NW NW SW SE

QUADRANGLE: BANNER LONGITUDE: -89.978405 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.601116 DATE COLLECTED: 5 / 2 / 1955

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 54.8 LOG TYPE: Drillers Log

SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
670.0			UNCONSOLIDATED	16.3	0.0
653.7	CARBONDALE		SANDY SHALE	10.2	16.3
643.5	CARBONDALE		SHALE	20.3	26.5
623.2	CARBONDALE	BRERETON	LIMESTONE	3.3	46.8
619.8	CARBONDALE	ENERGY	SHALE	0.2	50.2
619.7	CARBONDALE	HERRIN	COAL	4.4	50.3

MAPID: 05701647000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 165' N line, 0' W line of NW SE
 QUADRANGLE: BANNER LONGITUDE: -89.979209 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.604274 DATE COLLECTED: 5 / 3 / 1955
 SURFACE ELEVATION (FT.): 672.0 LOGGED (FT.): 51.4 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.0			UNCONSOLIDATED	15.0	0.0	
657.0	CARBONDALE		SANDY SHALE	15.4	15.0	
641.6	CARBONDALE		SHALE	13.0	30.4	
628.6	CARBONDALE	BRERETON	LIMESTONE	4.6	43.4	SDY LWR 2.33 FT
624.0	CARBONDALE	ENERGY	SHALE	0.9	48.0	
623.1	CARBONDALE	HERRIN	COAL	2.5	48.9	

MAPID: 05701669000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 0' N line, 500' W line of SE SW
 QUADRANGLE: BANNER LONGITUDE: -89.982723 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.601117 DATE COLLECTED: 5 / 17 / 1955
 SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 40.1 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0			UNCONSOLIDATED	20.3	0.0	
634.7	CARBONDALE		SHALE	15.5	20.3	
619.2	CARBONDALE	HERRIN	COAL	4.3	35.8	

MAPID: 05701672000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: SE SE SW NE
 QUADRANGLE: BANNER LONGITUDE: -89.9746 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.605181 DATE COLLECTED: 5 / 18 / 1955
 SURFACE ELEVATION (FT.): 595.0 LOGGED (FT.): 26.8 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
595.0			UNCONSOLIDATED	11.8	0.0	
583.2	CARBONDALE		SHALE	9.5	11.8	
573.7	CARBONDALE	ANNA	BLACK SHALE	1.1	21.3	FISSILE
572.7	CARBONDALE	HERRIN	COAL	4.4	22.3	

MAPID: 05701682000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW
 QUADRANGLE: BANNER LONGITUDE: -89.989673 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.604725 DATE COLLECTED: 5 / 30 / 1955
 SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 53.8 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	13.2	0.0	
646.8	CARBONDALE		SANDY SHALE	7.4	13.2	
639.4	CARBONDALE		SHALE	6.7	20.6	
632.7	CARBONDALE		SANDY SHALE	19.7	27.3	
613.1	CARBONDALE	ANNA	BLACK SHALE	2.4	46.9	FISSILE
610.7	CARBONDALE	HERRIN	COAL	4.5	49.3	

MAPID: 05701686000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SW
 QUADRANGLE: BANNER LONGITUDE: -89.984627 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.597507 DATE COLLECTED: 6 / 6 / 1955
 SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 36.8 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCONSOLIDATED	19.5	0.0	
645.5	CARBONDALE		SANDY SHALE	8.8	19.5	
636.7	CARBONDALE		SHALE	4.3	28.3	
632.4	CARBONDALE	HERRIN	COAL	4.3	32.6	

MAPID: 05701694000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 165' S line, 0' E line of SE SE SE SW
 QUADRANGLE: BANNER LONGITUDE: -89.979379 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.597955 DATE COLLECTED: 6 / 10 / 1955
 SURFACE ELEVATION (FT.): 668.0 LOGGED (FT.): 42.0 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.0			UNCONSOLIDATED	25.7	0.0	
642.3	CARBONDALE		SHALE	0.7	25.7	
641.7	CARBONDALE	BRERETON	LIMESTONE	0.8	26.3	
640.9	CARBONDALE	ENERGY	SHALE	12.4	27.1	
628.5	CARBONDALE	HERRIN	COAL	2.5	39.5	

MAPID: 05701697000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NE

QUADRANGLE: BANNER LONGITUDE: -89.973766 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.611963 DATE COLLECTED: 6 / 25 / 1955

SURFACE ELEVATION (FT.): 678.0 LOGGED (FT.): 72.8 LOG TYPE: Drillers Log

SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.0			UNCONSOLIDATED	26.0	0.0	
652.0	CARBONDALE		SANDY SHALE	2.3	26.0	
649.7	CARBONDALE		SHALE	30.7	28.3	
619.0	CARBONDALE		LIMESTONE	1.3	59.0	"SD RK + LM RK"
617.7	CARBONDALE		SHALE	5.7	60.3	
612.1	CARBONDALE	BRERETON	LIMESTONE	2.1	65.9	
610.0	CARBONDALE		SHALE	0.3	68.0	DARK
609.7	CARBONDALE	HERRIN	COAL	4.5	68.3	

MAPID: 05701700000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 7 QUARTERS/FOOTAGES: 165' N line, 82' E line of NE NE SE NW

QUADRANGLE: BANNER LONGITUDE: -89.979407 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.607888 DATE COLLECTED: 6 / 27 / 1955

SURFACE ELEVATION (FT.): 568.0 LOGGED (FT.): 25.5 LOG TYPE: Drillers Log

SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
568.0			UNCONSOLIDATED	17.9	0.0	
550.1	CARBONDALE		SHALE	0.8	17.9	
549.2	CARBONDALE		SANDSTONE	0.8	18.8	
548.5	CARBONDALE		SHALE	0.6	19.5	
547.9	CARBONDALE	ANNA	BLACK SHALE	1.2	20.1	FISSILE
546.7	CARBONDALE	HERRIN	COAL	4.3	21.3	

MAPID: 05760190000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 7 **QUARTERS/FOOTAGES:** 90' S line, 210' E line of SW NW
QUADRANGLE: BANNER **LONGITUDE:** -89.985186 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.604976 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 650.0 **LOGGED (FT.):** 134.5 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
594.5	CARBONDALE	HERRIN	COAL	4.5	55.5	
590.0	CARBONDALE		UNCLASSIFIED	71.0	60.0	
519.0	CARBONDALE	SPRINGFIELD	COAL	3.5	131.0	

MAPID: 05760191000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 7 **QUARTERS/FOOTAGES:** 510' N line, 190' E line of SW NW
QUADRANGLE: BANNER **LONGITUDE:** -89.985063 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.606929 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 673.0 **LOGGED (FT.):** 131.5 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
617.5	CARBONDALE	HERRIN	COAL	3.0	55.5	
614.5	CARBONDALE		UNCLASSIFIED	69.5	58.5	
545.0	CARBONDALE	SPRINGFIELD	COAL	3.5	128.0	

MAPID: 05760192000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 7 **QUARTERS/FOOTAGES:** 200' S line, 460' E line of NW SW
QUADRANGLE: BANNER **LONGITUDE:** -89.98618 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.601669 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 671.0 **LOGGED (FT.):** 49.0 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
625.5	CARBONDALE	HERRIN	COAL	3.5	45.5	

MAPID: 05760194000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 7 **QUARTERS/FOOTAGES:** 200' S line, 90' W line of SW
QUADRANGLE: BANNER **LONGITUDE:** -89.989525 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.598063 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 659.0 **LOGGED (FT.):** 20.8 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
641.9	CARBONDALE	HERRIN	COAL	3.8	17.1	

MAPID: 05786659000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 7 **QUARTERS/FOOTAGES:** 0' N line, 0' E line of NE NE
QUADRANGLE: BANNER **LONGITUDE:** -89.968528 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.611973 **DATE COLLECTED:** 10 / 13 / 1955
SURFACE ELEVATION (FT.): 581.6 **LOGGED (FT.):** 69.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE C409 **WELL TYPE:** Coal Test
COMMENT: NORRIS BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
581.6	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0	
577.6	PLEISTOCENE		SAND & GRAVEL	14.0	4.0	
563.6	CARBONDALE		SANDY SHALE	42.0	18.0	HARD
521.6	CARBONDALE	ST. DAVID	LIMESTONE	1.0	60.0	
520.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	61.0	
518.7	CARBONDALE	SPRINGFIELD	COAL	3.8	62.9	GOOD
514.8	CARBONDALE		UNDERCLAY	2.3	66.8	SOFT

MAPID: 05786661000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 7 **QUARTERS/FOOTAGES:** 0' N line, 0' W line of SW SE
QUADRANGLE: BANNER **LONGITUDE:** -89.979292 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.601115 **DATE COLLECTED:** 10 / 17 / 1955
SURFACE ELEVATION (FT.): 674.5 **LOGGED (FT.):** 55.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE C255 **WELL TYPE:** Coal Test
COMMENT: NORRIS BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.5	PLEISTOCENE		UNCONSOLIDATED	18.0	0.0	
656.5	PLEISTOCENE		CLAY	19.5	18.0	
637.0	CARBONDALE		SANDY SHALE	11.5	37.5	
625.5	CARBONDALE	HERRIN	COAL	2.6	49.0	GOOD
622.9	CARBONDALE	HERRIN	CLAYSTONE	0.3	51.6	SOFT
622.7	CARBONDALE	HERRIN	COAL	1.7	51.8	GOOD
621.0	CARBONDALE		UNDERCLAY	1.5	53.5	

MAPID: 05701033000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 8 QUARTERS/FOOTAGES: NE

QUADRANGLE: BANNER LONGITUDE: -89.954266 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.607925 DATE COLLECTED: 11 / 18 / 1955

SURFACE ELEVATION (FT.): 578.4 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
578.4			UNCONSOLIDATED	39.0	0.0	
539.4	CARBONDALE		SHALE	3.0	39.0	DARK
536.4	CARBONDALE	BRERETON	LIMESTONE	0.3	42.0	"CAP ROCK"
536.1	CARBONDALE	ANNA	BLACK SHALE	1.8	42.3	FISSILE
534.2	CARBONDALE	HERRIN	COAL	4.2	44.2	
530.1	CARBONDALE		UNDERCLAY	1.7	48.3	

MAPID: 05701035000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 8 QUARTERS/FOOTAGES: NW

QUADRANGLE: BANNER LONGITUDE: -89.96384 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.608211 DATE COLLECTED: 10 / 13 / 1955

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 69.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0			UNCONSOLIDATED	52.0	0.0	
610.0	CARBONDALE		SHALE	6.0	52.0	
604.0	CARBONDALE		SHALE	4.7	58.0	DARK
599.3	CARBONDALE	HERRIN	COAL WITH SHALE	4.1	62.7	2-IN CLY PTG
595.2	CARBONDALE		UNDERCLAY	2.3	66.8	

MAPID: 05701650000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 8 QUARTERS/FOOTAGES: NW SW SW

QUADRANGLE: BANNER LONGITUDE: -89.967644 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.600171 DATE COLLECTED: 5 / 4 / 1955

SURFACE ELEVATION (FT.): 550.0 LOGGED (FT.): 19.2 LOG TYPE: Drillers Log

SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.0			UNCONSOLIDATED	10.4	0.0	
539.6	CARBONDALE		SHALE	2.5	10.4	
537.1	CARBONDALE	ANNA	BLACK SHALE	1.4	12.9	FISSILE
535.7	CARBONDALE	HERRIN	COAL	4.8	14.3	

MAPID: 05701658000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 8 QUARTERS/FOOTAGES: 0' S line, 165' W line of NW SE NE SW

QUADRANGLE: BANNER LONGITUDE: -89.961024 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.601783 DATE COLLECTED: 5 / 6 / 1955

SURFACE ELEVATION (FT.): 560.0 LOGGED (FT.): 40.8 LOG TYPE: Drillers Log

SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.0			UNCONSOLIDATED	15.4	0.0	
544.6	CARBONDALE		SHALE	19.9	15.4	
524.7	CARBONDALE	ANNA	BLACK SHALE	1.1	35.3	FISSILE
523.6	CARBONDALE	HERRIN	COAL	4.3	36.4	

MAPID: 05786660000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 8 QUARTERS/FOOTAGES: 0' N line, 0' E line of SW NE

QUADRANGLE: BANNER LONGITUDE: -89.954266 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.607925 DATE COLLECTED: 11 / 18 / 1955

SURFACE ELEVATION (FT.): 578.5 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE C365 WELL TYPE: Coal Test

COMMENT: NORRIS BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
578.5	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
570.5	PLEISTOCENE		CLAY	31.0	8.0	
539.5	CARBONDALE		DARK SHALE	3.0	39.0	SOFT
536.5	CARBONDALE	ST. DAVID	LIMESTONE	0.3	42.0	CAP ROCK
536.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	42.3	
534.3	CARBONDALE	SPRINGFIELD	COAL	4.2	44.2	GOOD
530.2	CARBONDALE		UNDERCLAY	1.7	48.3	

MAPID: 05701036000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 12 QUARTERS/FOOTAGES: 114' S line, 76' W line of NE NE
 QUADRANGLE: BANNER LONGITUDE: -89.878188 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.607355 DATE COLLECTED: 10 / 26 / 1955
 SURFACE ELEVATION (FT.): 676.6 LOGGED (FT.): 54.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.6			UNCONSOLIDATED	24.0	0.0	
652.6	CARBONDALE		SANDY SHALE	21.0	24.0	
631.6	CARBONDALE	BRERETON	LIMESTONE	1.0	45.0	
630.6	CARBONDALE	ANNA	BLACK SHALE	0.5	46.0	FISSILE
630.1	CARBONDALE	HERRIN	COAL WITH SHALE	4.3	46.5	3-IN CLY PTG
625.8	CARBONDALE		UNDERCLAY	3.3	50.8	

MAPID: 05760172000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 15 QUARTERS/FOOTAGES: 130' S line, 180' E line of SW
 QUADRANGLE: BANNER LONGITUDE: -89.922353 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.58263 DATE COLLECTED: 3 / 14 / 1961
 SURFACE ELEVATION (FT.): 613.0 LOGGED (FT.): 92.3 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
524.3	CARBONDALE	SPRINGFIELD	COAL	4.7	88.7	

MAPID: 05760173000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 15 QUARTERS/FOOTAGES: 110' S line, 210' W line of SW
 QUADRANGLE: BANNER LONGITUDE: -89.930423 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.582537 DATE COLLECTED: 3 / 14 / 1961
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 68.4 LOG TYPE: Drillers Log
 SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
536.4	CARBONDALE	SPRINGFIELD	COAL	4.8	63.6	

MAPID: 05760174000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 15 **QUARTERS/FOOTAGES:** 80' N line, 80' W line of SW SW
QUADRANGLE: BANNER **LONGITUDE:** -89.930797 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.585659 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 633.0 **LOGGED (FT.):** 75.2 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
559.7	CARBONDALE	SPRINGFIELD	COAL	1.9	73.3	

MAPID: 05760175000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 16 **QUARTERS/FOOTAGES:** 100' N line, 70' W line of SE SE
QUADRANGLE: BANNER **LONGITUDE:** -89.935614 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.58568 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 620.0 **LOGGED (FT.):** 83.8 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
539.4	CARBONDALE	SPRINGFIELD	COAL	3.3	80.6	

MAPID: 05760176000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 16 **QUARTERS/FOOTAGES:** 570' N line, 720' W line of SE
QUADRANGLE: BANNER **LONGITUDE:** -89.937959 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.588044 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 631.0 **LOGGED (FT.):** 110.3 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
521.1	CARBONDALE	SPRINGFIELD	COAL	0.4	109.9	

MAPID: 05701641000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 17 **QUARTERS/FOOTAGES:** NE NW NW NW
QUADRANGLE: BANNER **LONGITUDE:** -89.967131 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.596978 **DATE COLLECTED:** 4 / 30 / 1955
SURFACE ELEVATION (FT.): 654.0 **LOGGED (FT.):** 56.0 **LOG TYPE:** Drillers Log
SOURCE: MORGAN COAL CO. **WELL TYPE:** Coal Test
COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.0			UNCONSOLIDATED	33.0	0.0	
621.0	CARBONDALE		SHALE	17.0	33.0	
604.0	CARBONDALE	HERRIN	COAL	0.5	50.0	
603.5	CARBONDALE		SHALE	5.5	50.5	

MAPID: 05760169000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 17 **QUARTERS/FOOTAGES:** 90' N line, 100' W line of SE SW
QUADRANGLE: BANNER **LONGITUDE:** -89.964094 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.586169 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 640.0 **LOGGED (FT.):** 90.3 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
553.7	CARBONDALE	SPRINGFIELD	COAL	3.9	86.3	

MAPID: 05760177000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 17 **QUARTERS/FOOTAGES:** 80' S line, 160' W line of NE
QUADRANGLE: BANNER **LONGITUDE:** -89.958996 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.590175 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 640.0 **LOGGED (FT.):** 102.7 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
541.4	CARBONDALE	SPRINGFIELD	COAL	4.1	98.6	

MAPID: 05760178000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 17 **QUARTERS/FOOTAGES:** 0' S line, 90' E line of SW NE
QUADRANGLE: BANNER **LONGITUDE:** -89.955147 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.589875 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 641.0 **LOGGED (FT.):** 94.1 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
549.8	CARBONDALE	SPRINGFIELD	COAL	2.9	91.2	

MAPID: 05760179000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 17 **QUARTERS/FOOTAGES:** 770' S line, 400' W line of NE
QUADRANGLE: BANNER **LONGITUDE:** -89.958068 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.592058 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 640.0 **LOGGED (FT.):** 100.4 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
543.8	CARBONDALE	SPRINGFIELD	COAL	4.3	96.2	

MAPID: 05760182000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 17 **QUARTERS/FOOTAGES:** 100' N line, 100' W line of SW SE
QUADRANGLE: BANNER **LONGITUDE:** -89.959342 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.586069 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 630.0 **LOGGED (FT.):** 91.2 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
542.5	CARBONDALE	SPRINGFIELD	COAL	3.7	87.5	

MAPID: 05760193000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 17 **QUARTERS/FOOTAGES:** 140' N line, 210' W line of SW
QUADRANGLE: BANNER **LONGITUDE:** -89.968352 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.589761 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 642.0 **LOGGED (FT.):** 106.3 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
539.3	CARBONDALE	SPRINGFIELD	COAL	3.7	102.7	

MAPID: 05760196000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 17 QUARTERS/FOOTAGES: 100' N line, 200' W line of SE SE

QUADRANGLE: BANNER LONGITUDE: -89.954231 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.585989 DATE COLLECTED: 3 / 14 / 1961

SURFACE ELEVATION (FT.): 630.0 LOGGED (FT.): 103.2 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
527.7	CARBONDALE	SPRINGFIELD	COAL	0.8	102.3	

MAPID: 05701038000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 18 QUARTERS/FOOTAGES: 0' N line, 990' W line of SW NE

QUADRANGLE: BANNER LONGITUDE: -89.975915 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.593828 DATE COLLECTED: 10 / 18 / 1955

SURFACE ELEVATION (FT.): 658.7 LOGGED (FT.): 108.3 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
658.7			UNCONSOLIDATED	43.0	0.0	
615.7	CARBONDALE		SANDSTONE	3.0	43.0	
612.7	CARBONDALE		SANDY SHALE	45.0	46.0	
567.7	CARBONDALE		SHALE	10.0	91.0	DARK
557.7	CARBONDALE	ST. DAVID	LIMESTONE	0.5	101.0	"CAP ROCK"
557.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	101.5	FISSILE
555.7	CARBONDALE	SPRINGFIELD	COAL	4.3	103.0	
551.4	CARBONDALE		UNDERCLAY	1.0	107.3	

MAPID: 05701040000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 18 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW NE

QUADRANGLE: BANNER LONGITUDE: -89.979498 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.593833 DATE COLLECTED: 10 / 17 / 1955

SURFACE ELEVATION (FT.): 658.3 LOGGED (FT.): 101.3 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
658.3			UNCONSOLIDATED	42.0	0.0	
616.3	CARBONDALE		SANDY SHALE	23.0	42.0	
593.3	CARBONDALE		SANDSTONE	3.0	65.0	
590.3	CARBONDALE		SANDY SHALE	22.0	68.0	
568.3	CARBONDALE		BLACK SHALE	4.5	90.0	
563.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	94.5	"CAP ROCK"
563.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	95.0	FISSILE
562.3	CARBONDALE	SPRINGFIELD	COAL	4.3	96.0	
558.0	CARBONDALE		UNDERCLAY	1.0	100.3	

MAPID: 05701628000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 18 QUARTERS/FOOTAGES: SW SW NW

QUADRANGLE: BANNER LONGITUDE: -89.988763 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.591092 DATE COLLECTED: 4 / 26 / 1955

SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 25.5 LOG TYPE: Drillers Log

SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			UNCONSOLIDATED	18.5	0.0	
631.5	CARBONDALE		SHALE	1.7	18.5	
629.8	CARBONDALE	ANNA	BLACK SHALE	0.8	20.2	FISSILE
629.0	CARBONDALE	HERRIN	COAL	4.5	21.0	

MAPID: 05701630000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 18 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NW NW
 QUADRANGLE: BANNER LONGITUDE: -89.987363 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.59384 DATE COLLECTED: 4 / 26 / 1955
 SURFACE ELEVATION (FT.): 590.0 LOGGED (FT.): 29.6 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
590.0			UNCONSOLIDATED	13.2	0.0	
576.8	CARBONDALE		SHALE	10.8	13.2	
566.1	CARBONDALE	ANNA	BLACK SHALE	1.3	23.9	FISSILE
564.7	CARBONDALE	HERRIN	COAL	4.3	25.3	

MAPID: 05701642000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 18 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NE NE NE
 QUADRANGLE: BANNER LONGITUDE: -89.970222 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.597492 DATE COLLECTED: 4 / 30 / 1955
 SURFACE ELEVATION (FT.): 652.0 LOGGED (FT.): 47.4 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
652.0			UNCONSOLIDATED	37.8	0.0	
614.2	CARBONDALE		SHALE	5.4	37.8	
608.8	CARBONDALE	HERRIN	COAL	4.3	43.2	

MAPID: 05701660000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 18 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE NE NW NE
 QUADRANGLE: BANNER LONGITUDE: -89.975463 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.597497 DATE COLLECTED: 5 / 11 / 1955
 SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 38.3 LOG TYPE: Drillers Log
 SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0			UNCONSOLIDATED	32.0	0.0	
630.0	CARBONDALE		SHALE	2.8	32.0	
627.2	CARBONDALE	HERRIN	COAL	3.6	34.8	

MAPID: 05701692000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 18 QUARTERS/FOOTAGES: 0' N line, 165' W line of NE NW NW NE

QUADRANGLE: BANNER LONGITUDE: -89.977482 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.597499 DATE COLLECTED: 6 / 8 / 1955

SURFACE ELEVATION (FT.): 666.0 LOGGED (FT.): 34.4 LOG TYPE: Drillers Log

SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.0			UNCONSOLIDATED	31.8	0.0	
634.2	CARBONDALE	HERRIN	COAL	2.7	31.8	

MAPID: 05701719000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 18 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SW NE SE

QUADRANGLE: ST. DAVID LONGITUDE: -89.973143 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.586481 DATE COLLECTED: 1 / 25 / 1955

SURFACE ELEVATION (FT.): 580.0 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: MORGAN COAL CO. WELL TYPE: Coal Test

COMMENT: LOCATION FROM CS MAP 6-105

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
580.0			UNCONSOLIDATED	36.3	0.0	
543.7	CARBONDALE	KERTON CREEK	COAL	1.3	36.3	PROB ERODED
542.4	CARBONDALE		SHALE	7.8	37.6	
534.7	CARBONDALE	PLEASANTVIEW	SANDSTONE	7.7	45.3	
527.0	CARBONDALE		SHALE	27.0	53.0	

MAPID: 05786662000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 18 QUARTERS/FOOTAGES: 0' N line, 990' W line of NW NE

QUADRANGLE: BANNER LONGITUDE: -89.975807 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.597498 DATE COLLECTED: 10 / 18 / 1955

SURFACE ELEVATION (FT.): 664.0 LOGGED (FT.): 40.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE C206B WELL TYPE: Coal Test

COMMENT: NORRIS BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.0	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
654.0	PLEISTOCENE		CLAY & GRAVEL	6.0	10.0	
648.0	PLEISTOCENE		CLAY	16.0	16.0	
632.0	CARBONDALE		SHALE	2.3	32.0	
629.7	CARBONDALE	HERRIN	COAL	3.4	34.3	
626.3	CARBONDALE		UNDERCLAY	2.3	37.7	

MAPID: 05786663000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 18 **QUARTERS/FOOTAGES:** 0' N line, 990' E line of SW NE
QUADRANGLE: BANNER **LONGITUDE:** -89.977837 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.593829 **DATE COLLECTED:** 10 / 17 / 1955
SURFACE ELEVATION (FT.): 658.3 **LOGGED (FT.):** 101.3 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE C155 **WELL TYPE:** Coal Test
COMMENT: NORRIS BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
658.3	PLEISTOCENE		CLAY	15.0	0.0	
643.3	PLEISTOCENE		CLAY	27.0	15.0	
616.3	CARBONDALE		SANDY SHALE	23.0	42.0	HARD
593.3	CARBONDALE		SANDSTONE	3.0	65.0	HARD
590.3	CARBONDALE		SANDY SHALE	22.0	68.0	HARD
568.3	CARBONDALE		BLACK SHALE	4.5	90.0	SOFT
563.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	94.5	HARD, CAPROCK
563.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	95.0	
562.3	CARBONDALE	SPRINGFIELD	COAL	4.3	96.0	GOOD
558.0	CARBONDALE		UNDERCLAY	1.0	100.3	

MAPID: 05760180000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 21 **QUARTERS/FOOTAGES:** 160' N line, 200' W line of NE NE
QUADRANGLE: BANNER **LONGITUDE:** -89.93526 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.581874 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 607.0 **LOGGED (FT.):** 42.5 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
565.0	CARBONDALE	SPRINGFIELD	COAL	0.5	42.0	

MAPID: 05760181000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 7N 5E **SECTION:** 21 **QUARTERS/FOOTAGES:** 530' S line, 580' W line of NE NE
QUADRANGLE: BANNER **LONGITUDE:** -89.933918 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.58013 **DATE COLLECTED:** 3 / 14 / 1961
SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 48.5 **LOG TYPE:** Drillers Log
SOURCE: TRUAX-TRAER COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
535.0	CARBONDALE	SPRINGFIELD	COAL	3.5	45.0	

MAPID: 05701123000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 7N 5E

SECTION: 24

QUARTERS/FOOTAGES: 720' N line, 226' W line of SW

QUADRANGLE: BANNER

LONGITUDE: -89.892324

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.572808

DATE COLLECTED: 9 / 26 / 1959

SURFACE ELEVATION (FT.): 602.5

LOGGED (FT.): 854.0

LOG TYPE: Electric Log

SOURCE: CENTRAL ILLINOIS LIGHT CO.

WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
434.5	CARBONDALE	OAK GROVE	LIMESTONE	4.0	168.0	
430.5	CARBONDALE		ROCK	10.0	172.0	
420.5	CARBONDALE	MECCA QUARRY	SHALE	1.0	182.0	
419.5	CARBONDALE	FRANCIS CREEK	SHALE	10.0	183.0	
409.5	CARBONDALE	COLCHESTER	COAL	1.5	193.0	BASE OF CARBONDALE
408.0	SPOON		ROCK	20.5	194.5	
387.5	SPOON	WILEY	COAL	1.0	215.0	
386.5	SPOON		ROCK	26.0	216.0	
360.5	SPOON	DELONG	COAL	1.0	242.0	
359.5	SPOON		ROCK	3.0	243.0	
356.5	SPOON	HERMON	COAL	1.0	246.0	
355.5	SPOON		ROCK	37.0	247.0	
318.5	SPOON	ROCK ISLAND	COAL	2.0	284.0	
316.5	SPOON		UNDERCLAY	7.0	286.0	BASE OF SPOON
309.5	ABBOTT		ROCK	77.0	293.0	BASE OF PENNSYLVANIAN
232.5			ROCK	484.0	370.0	MISSISSIPPIAN AND OLDER

MAPID: 05701122000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 26 QUARTERS/FOOTAGES: 56' N line, 335' E line of SE
 QUADRANGLE: BANNER LONGITUDE: -89.894731 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.560183 DATE COLLECTED: 9 / 5 / 1959
 SURFACE ELEVATION (FT.): 593.0 LOGGED (FT.): 839.0 LOG TYPE: Electric Log
 SOURCE: CENTRAL ILLINOIS LIGHT CO. WELL TYPE: Dry Hole
 COMMENT: 5,7,12,15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
593.0			NO RECORD	108.0	0.0	
485.0	CARBONDALE		ROCK	59.5	108.0	
425.5	CARBONDALE	OAK GROVE	LIMESTONE	2.5	167.5	
423.0	CARBONDALE		ROCK	11.5	170.0	
411.5	CARBONDALE	MECCA QUARRY	SHALE	2.5	181.5	VERY HIGH GAMMA
409.0	CARBONDALE		ROCK	6.0	184.0	
403.0	CARBONDALE	COLCHESTER	COAL	2.5	190.0	BASE OF CARBONDALE
400.5	SPOON		ROCK	21.5	192.5	
379.0	SPOON	WILEY	COAL	1.5	214.0	
377.5	SPOON		ROCK	27.5	215.5	
350.0	SPOON	DELONG	COAL	1.0	243.0	
349.0	SPOON		ROCK	10.0	244.0	
339.0	SPOON	HERMON	COAL	1.5	254.0	
337.5	SPOON		ROCK	32.5	255.5	
305.0	SPOON	ROCK ISLAND	COAL	3.0	288.0	
302.0	SPOON		UNDERCLAY	4.0	291.0	BASE OF SPOON
298.0	ABBOTT		ROCK	93.0	295.0	BASE OF PENNSYLVANIAN
205.0			ROCK	451.0	388.0	MISSISSIPPIAN AND OLDER

MAPID: 05700679000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 28 QUARTERS/FOOTAGES: SE SE SE NE
 QUADRANGLE: BANNER LONGITUDE: -89.932138 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.560983 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 598.0 LOGGED (FT.): 92.7 LOG TYPE: Drillers Log
 SOURCE: STAR COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
598.0			UNCONSOLIDATED	48.8	0.0	B BS PLEISTOCENE
549.2	CARBONDALE		SHALE	38.5	48.8	SDY IN UPR 1/2
510.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	87.3	
510.0	CARBONDALE	SPRINGFIELD	COAL	4.3	88.0	
505.7	CARBONDALE		UNDERCLAY	0.3	92.3	

MAPID: 05786605000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 31 QUARTERS/FOOTAGES: 5' N line, 5' W line of NW SE
 QUADRANGLE: BANNER LONGITUDE: -89.980563 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.546304 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 69.9 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 221 WELL TYPE: Coal Test
 COMMENT: SE CANTON BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
600.0	PLEISTOCENE		UNCONSOLIDATED	16.0	0.0
584.0	PLEISTOCENE		CLAY	24.0	16.0
560.0	CARBONDALE		SHALE	25.0	40.0
535.0	CARBONDALE	SPRINGFIELD	COAL	4.7	65.0

MAPID: 05786608000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 31 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SE
 QUADRANGLE: BANNER LONGITUDE: -89.980743 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.538995 DATE COLLECTED: 8 / 0 / 1936
 SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 75.8 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 69 WELL TYPE: Coal Test
 COMMENT: SE CANTON BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
610.0	PLEISTOCENE		UNCONSOLIDATED	18.0	0.0
592.0	PLEISTOCENE		CLAY & GRAVEL	22.0	18.0
570.0	PLEISTOCENE		CLAY	21.8	40.0
548.2	CARBONDALE		SHALE	7.0	61.8 SOFT
541.2	CARBONDALE	ST. DAVID	LIMESTONE	0.6	68.8 CAP ROCK
540.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.2	69.3
538.5	CARBONDALE	SPRINGFIELD	COAL	4.3	71.5

MAPID: 057EBM00567Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 31 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE

QUADRANGLE: BANNER LONGITUDE: -89.970283 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.54626 DATE COLLECTED:

SURFACE ELEVATION (FT.): 606.0 LOGGED (FT.): 56.0 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL HOLE RECORDS IN COAL SECT.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
606.0			UNCONSOLIDATED	36.0	0.0	
570.0	CARBONDALE		SANDY SHALE	11.2	36.0	
558.8	CARBONDALE		ROCK	0.5	47.2	
558.3	CARBONDALE	TURNER MINE	SHALE	3.8	47.7	
554.6	CARBONDALE	SPRINGFIELD	COAL	3.8	51.4	
550.8	CARBONDALE		UNDERCLAY	1.0	55.2	

MAPID: 057EBM00565Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 31 QUARTERS/FOOTAGES: NW NW NW SE

QUADRANGLE: BANNER LONGITUDE: -89.979948 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.545857 DATE COLLECTED:

SURFACE ELEVATION (FT.): 614.0 LOGGED (FT.): 69.9 LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL HOLE RECORDS IN COAL SECT.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
614.0			UNCONSOLIDATED	26.0	0.0	
588.0	CARBONDALE		SHALE	24.8	26.0	
563.2	CARBONDALE		SANDY SHALE	10.5	50.8	
552.7	CARBONDALE		ROCK	0.8	61.3	
551.9	CARBONDALE		SHALE	0.8	62.1	
551.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	62.8	FISSILE
550.6	CARBONDALE	SPRINGFIELD	COAL	5.7	63.4	
544.9	CARBONDALE		UNDERCLAY	0.8	69.1	

MAPID: 057EBM00541Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 31 QUARTERS/FOOTAGES: SW SW NE SE
 QUADRANGLE: BANNER LONGITUDE: -89.974873 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.543083 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 607.0 LOGGED (FT.): 68.1 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: BOOK OF DRILL HOLE RECORDS IN COAL SECT.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
607.0			UNCONSOLIDATED	23.0	0.0	
584.0	CARBONDALE		BLACK SHALE	37.8	23.0	FISSILE
546.2	CARBONDALE		ROCK	0.3	60.8	
546.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	61.0	FISSILE
545.2	CARBONDALE	SPRINGFIELD	COAL	5.4	61.8	
539.7	CARBONDALE		UNDERCLAY	0.8	67.3	

MAPID: 057EBM00514Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 31 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SW
 QUADRANGLE: BANNER LONGITUDE: -89.985875 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.539015 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 613.0 LOGGED (FT.): 55.9 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: BOOK OF DRILL HOLE RECORDS IN COAL SECT.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
613.0			UNCONSOLIDATED	27.0	0.0	
586.0	CARBONDALE		SHALE	23.6	27.0	
562.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	50.6	FISSILE
561.4	CARBONDALE	SPRINGFIELD	COAL	4.3	51.6	

MAPID: 057EBM00545Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 32 QUARTERS/FOOTAGES: 0' N line, 0' W line of SE SE
 QUADRANGLE: BANNER LONGITUDE: -89.955997 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.542511 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 588.0 LOGGED (FT.): 60.7 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: BOOK OF DRILL HOLE RECORDS IN COAL SECT.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
588.0			UNCONSOLIDATED	52.2	0.0	
535.8	CARBONDALE		SHALE	3.0	52.2	
532.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	55.2	FISSILE
531.5	CARBONDALE	SPRINGFIELD	COAL	4.2	56.5	

MAPID: 057EBM00543Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 32 QUARTERS/FOOTAGES: 0' S line, 0' W line of NE SW
 QUADRANGLE: BANNER LONGITUDE: -89.965593 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.542573 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 611.0 LOGGED (FT.): 67.2 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: BOOK OF DRILL HOLE RECORDS IN COAL SECT.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
611.0			UNCONSOLIDATED	40.0	0.0	
571.0	CARBONDALE		SHALE	21.0	40.0	
550.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	61.0	FISSILE
549.0	CARBONDALE	SPRINGFIELD	COAL	5.2	62.0	

MAPID: 057EBM00617Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 32 QUARTERS/FOOTAGES: 330' N line, 0' W line of NW
 QUADRANGLE: BANNER LONGITUDE: -89.970099 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.552662 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 620.0 LOGGED (FT.): 66.0 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: BOOK OF DRILL HOLE RECORDS IN COAL SECT.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	57.8	0.0	
562.2	CARBONDALE		ROCK	0.5	57.8	
561.7	CARBONDALE	ST. DAVID	LIMESTONE	1.2	58.3	"CLOD"
560.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	59.5	FISSILE
559.0	CARBONDALE	SPRINGFIELD	COAL	5.2	61.0	

MAPID: 057EBM00571Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 7N 5E SECTION: 33 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW
 QUADRANGLE: BANNER LONGITUDE: -89.95116 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.546102 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 560.0 LOGGED (FT.): 52.0 LOG TYPE: Drillers Log
 SOURCE: UNITED ELECTRIC COAL CO. WELL TYPE: Coal Test
 COMMENT: BOOK OF DRILL HOLE RECORDS IN COAL SECT.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.0			UNCONSOLIDATED	35.0	0.0	
525.0	CARBONDALE		GRAY SHALE	11.0	35.0	
514.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	46.0	FISSILE
513.3	CARBONDALE	SPRINGFIELD	COAL	4.5	46.7	
508.8	CARBONDALE		UNDERCLAY	0.7	51.2	

MAPID: 057EBM00521Z VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 7N 5E

SECTION: 33

QUARTERS/FOOTAGES: 0' S line, 0' W line

QUADRANGLE: BANNER

LONGITUDE: -89.951239

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.538862

DATE COLLECTED:

SURFACE ELEVATION (FT.): 602.0

LOGGED (FT.): 62.8

LOG TYPE: Drillers Log

SOURCE: UNITED ELECTRIC COAL CO.

WELL TYPE: Coal Test

COMMENT: BOOK OF DRILL HOLE RECORDS IN COAL SECT.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
602.0			UNCONSOLIDATED	57.4	0.0	
544.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	57.4	FISSILE
543.5	CARBONDALE	SPRINGFIELD	COAL	4.3	58.5	

MAPID: 05786603000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON

TWP/RNG: 7N 5E

SECTION: 34

QUARTERS/FOOTAGES: NE NW

QUADRANGLE: BANNER

LONGITUDE: -89.924587

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 40.551436

DATE COLLECTED: 1 / 19 / 1945

SURFACE ELEVATION (FT.): 560.0

LOGGED (FT.): 37.8

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 421

WELL TYPE: Coal Test

COMMENT: BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.0	PLEISTOCENE		SAND/CLAY	14.0	0.0	SHALEY
546.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.4	14.0	
545.6	CARBONDALE	SPRINGFIELD	COAL	2.0	14.4	GOOD
543.6	CARBONDALE		UNDERCLAY	2.0	16.4	
541.6	CARBONDALE		CLAYSTONE	19.4	18.4	

MAPID: 05786875000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON

TWP/RNG: 8N 1E

SECTION: 1

QUARTERS/FOOTAGES: SW SE

QUADRANGLE: LONDON MILL

LONGITUDE: -90.335322

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 40.701961

DATE COLLECTED: 12 / 8 / 1960

SURFACE ELEVATION (FT.): 557.1

LOGGED (FT.): 22.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE F471

WELL TYPE: Coal Test

COMMENT: LONDON MILL AREA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
557.1	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0	
554.1	PLEISTOCENE			9.0	3.0	
545.1	TRADEWATER		SHALE	4.0	12.0	
541.1	TRADEWATER		BLACK SHALE	2.0	16.0	
539.1	TRADEWATER	ROCK ISLAND	COAL	2.5	18.0	FAIR
536.6	TRADEWATER		UNDERCLAY	1.5	20.5	

MAPID: 05701377000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 1E SECTION: 11 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW NE

QUADRANGLE: LONDON MILLS LONGITUDE: -90.352907 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.699583 DATE COLLECTED: 12 / 26 / 1963

SURFACE ELEVATION (FT.): 651.0 LOGGED (FT.): 950.0 LOG TYPE: Drillers Log

SOURCE: PALMER, HARRY A. WELL TYPE: Dry Hole

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.0			UNCONSOLIDATED	35.0	0.0	
616.0	SPOON		CLAYSTONE	17.0	35.0	"FIRECLAY"
599.0	SPOON		SHALE	7.0	52.0	DARK
592.0	SPOON		CLAYSTONE	16.0	59.0	"FIRECLAY"
576.0	SPOON		SANDSTONE	16.0	75.0	INTRBDD W/ DK SH
560.0	SPOON	ROCK ISLAND	COAL WITH SHALE	4.0	91.0	BS SPOON; BK SH AND COAL LENSES
556.0	ABBOTT		SANDSTONE	9.0	95.0	
547.0	ABBOTT		SANDSTONE	6.0	104.0	BS PENNSYLVANIAN,INTRBDD W/ SH
541.0			ROCK	840.0	110.0	MISSISSIPPIAN AND OLDER

MAPID: 05786569000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 1E SECTION: 11 QUARTERS/FOOTAGES: 1' N line, 1' E line of NW NW

QUADRANGLE: LONDON MILL LONGITUDE: -90.361467 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700531 DATE COLLECTED: 12 / 29 / 1960

SURFACE ELEVATION (FT.): 644.7 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE F411 WELL TYPE: Coal Test

COMMENT: L. MILLS BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.7	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0	
629.7	PLEISTOCENE		CLAY	51.0	15.0	
578.7	CARBONDALE		DARK SHALE	2.9	66.0	
575.8	CARBONDALE	COLCHESTER	COAL	1.1	68.9	GOOD
574.7	CARBONDALE		UNDERCLAY	2.0	70.0	

MAPID: 05786873000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 1E SECTION: 11 QUARTERS/FOOTAGES: SW NE

QUADRANGLE: LONDON MILL LONGITUDE: -90.35399 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.69507 DATE COLLECTED: 12 / 28 / 1960

SURFACE ELEVATION (FT.): 634.9 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE F363 WELL TYPE: Coal Test

COMMENT: L MILLS BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
634.9	PLEISTOCENE		UNCONSOLIDATED	14.0	0.0	
620.9	PLEISTOCENE		CLAY	8.0	14.0	
612.9	PLEISTOCENE		CLAY	5.0	22.0	
607.9	CARBONDALE		MICACEOUS SHALE	13.0	27.0	
594.9	CARBONDALE		DARK SHALE	3.0	40.0	
591.9	CARBONDALE		MICACEOUS SHALE	3.0	43.0	SOFT
588.9	CARBONDALE	COLCHESTER	COAL	0.9	46.0	ROTTEN
588.0	CARBONDALE		SHALE	3.1	46.9	SOFT

MAPID: 05786874000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 1E SECTION: 12 QUARTERS/FOOTAGES: NW NW

QUADRANGLE: LONDON MILL LONGITUDE: -90.3445 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.698597 DATE COLLECTED: 12 / 8 / 1960

SURFACE ELEVATION (FT.): 629.0 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE F369 WELL TYPE: Coal Test

COMMENT: LONDON MILLS AREA BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.0	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0	
609.0	PLEISTOCENE		CLAY	42.0	20.0	
567.0	CARBONDALE		DARK SHALE	3.8	62.0	
563.2	CARBONDALE	COLCHESTER	COAL	0.7	65.8	
562.5	CARBONDALE		UNDERCLAY	1.5	66.5	

MAPID: 05722021000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 8N 1E

SECTION: 13

QUARTERS/FOOTAGES: SW NE SW NW

QUADRANGLE: LONDON MILLS

LONGITUDE: -90.344117

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.680863

DATE COLLECTED: 0 / 0 / 1968

SURFACE ELEVATION (FT.): 656.0

LOGGED (FT.): 771.0

LOG TYPE: Survey Core Study

SOURCE: NEW JERSEY ZINC CO.

WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
656.0			ROCK	90.0	0.0	NO RECORD
566.0	SPOON		SHALE	21.0	90.0	CLY,GY,PYRC
545.0	SPOON		SHALE	3.7	111.0	DK GY,CARB
541.3	SPOON		BLACK SHALE	2.3	114.7	CLY,CARB,BK
539.0	SPOON		SANDSTONE	2.1	117.0	CLY,MICS,GY,CARB,FN GRND
536.9	SPOON		BLACK SHALE	1.1	119.1	CLY,BK,FIS,CARB
535.8	SPOON	ROCK ISLAND	COAL	0.1	120.2	
535.8	SPOON		UNDERCLAY	11.8	120.2	BS SPOON; SH;CLY;MICS;GY;CARB
524.0	ABBOTT		SANDSTONE	7.9	132.0	LT GY TO WH,ARGIL,FN GRND
516.1	ABBOTT		SHALE	0.8	139.9	GY,SS LAMNS
515.3	ABBOTT		SANDSTONE	23.8	140.7	CARB,FN GRND,BK SH LAMNS
491.6	ABBOTT		BLACK SHALE	0.7	164.4	CARB,BK,SS LAMNS
490.9	ABBOTT		SANDSTONE	15.8	165.1	INTRLAMD W/ SH
475.1	ABBOTT		BLACK SHALE	3.8	180.9	BS PENNSYLVANIAN; BK; SS LAMNS
471.2			ROCK	586.3	184.8	MISSISSIPPIAN TO ORDOVICIAN

MAPID: 05722021000C VERSION: 2

PROJECT: NCRDS87

COUNTY: FULTON

TWP/RNG: 8N 1E

SECTION: 13

QUARTERS/FOOTAGES: SW NE SW NW

QUADRANGLE: LONDON MILLS

LONGITUDE: -90.344117

GEOLOGIST: WEIBEL

CONFIDENTIAL: N

LATITUDE: 40.680863

DATE COLLECTED: 0 / 0 / 1968

SURFACE ELEVATION (FT.): 656.0

LOGGED (FT.): 184.8

LOG TYPE: Survey Core Study

SOURCE: NEW JERSEY ZINC CO

WELL TYPE: Mineral Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
656.0			UNCONSOLIDATED	90.0	0.0	
566.0			GRAY SHALE	21.0	90.0	
545.0			DARK SHALE	3.7	111.0	
541.3			BLACK SHALE	2.3	114.7	
539.0			SANDSTONE	2.1	117.0	
536.9			BLACK SHALE	1.1	119.1	
535.8	SPOON	ROCK ISLAND	COAL	0.1	120.2	UNCERTAIN CORRELATION
535.7			GRAY SHALE	11.8	120.3	
524.0			SANDSTONE	7.9	132.0	
516.1			GRAY SHALE	0.8	139.9	
515.3			SANDSTONE	23.7	140.7	
491.6			SILTSTONE & SHALE	20.3	164.4	INTERBEDDED BKSH AND SS
471.2			UNCLASSIFIED	0.0	184.8	TOP OF MISS

MAPID: 05700681000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 8N 2E

SECTION: 2

QUARTERS/FOOTAGES: 275' S line, 660' E line of NW

QUADRANGLE: FAIRVIEW

LONGITUDE: -90.246116

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.706919

DATE COLLECTED: 8 / 0 / 1941

SURFACE ELEVATION (FT.): 620.0

LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: PETERSON, WILLIS

WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	16.0	0.0	
604.0	SPOON		CLAYSTONE	24.0	16.0	BLUE
580.0	SPOON		SANDY CLAYSTONE	5.0	40.0	
575.0	SPOON	WILEY	COAL	0.9	45.0	
574.1	SPOON		SANDSTONE	39.2	45.9	

MAPID: 0578581000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW

LONGITUDE: -90.125255

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 40.708357

DATE COLLECTED: 12 / 21 / 1951

SURFACE ELEVATION (FT.): 699.7

LOGGED (FT.): 75.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 5735

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
699.7	PLEISTOCENE		SOIL	1.0	0.0
698.7	PLEISTOCENE		CLAY	18.9	1.0
679.8	PLEISTOCENE		SANDY CLAY	4.9	19.9
674.9	CARBONDALE		GRAY SHALE	16.1	24.8
658.8	CARBONDALE		GRAY SANDSTONE	4.4	40.9
654.4	CARBONDALE		DARK SHALE	22.7	45.3
631.7	CARBONDALE	ST. DAVID	LIMESTONE	0.5	68.0
631.2	CARBONDALE	TURNER MINE	BLACK SHALE	2.4	68.5
628.8	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.8	70.9
625.0	CARBONDALE		UNDERCLAY	1.2	74.7

MAPID: 05700682000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 3 QUARTERS/FOOTAGES: NW SW SW NW

QUADRANGLE: LONDON MILLS

LONGITUDE: -90.271099

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.70761

DATE COLLECTED: 0 / 0 / 1918

SURFACE ELEVATION (FT.): 535.0

LOGGED (FT.): 60.5

LOG TYPE: Drillers Log

SOURCE: STAR COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
535.0			UNCONSOLIDATED	25.3	0.0
509.7	SPOON		ROCK	0.5	25.3
509.2	SPOON		BLACK SHALE	0.5	25.8 FISSILE
508.7	SPOON	WILEY	COAL	0.8	26.3
507.8	SPOON		UNDERCLAY	5.0	27.2
502.8	SPOON		SHALE	13.8	32.2
489.0	SPOON		ROCK	10.2	46.0
478.8	SPOON	ROCK ISLAND	COAL	4.3	56.2

MAPID: 05700683000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 8N 2E

SECTION: 4

QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: LONDON MILLS

LONGITUDE: -90.277576

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.699755

DATE COLLECTED:

SURFACE ELEVATION (FT.): 540.0

LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: STAR COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
540.0			UNCONSOLIDATED	12.0	0.0	
528.0	SPOON		SHALE	3.4	12.0	DARK
524.6	SPOON		BLACK SHALE	0.6	15.4	FISSILE
524.0	SPOON	WILEY	COAL	0.2	16.0	
523.8	SPOON		SHALE	5.8	16.2	
518.1	SPOON		SHALE	25.3	21.9	GY.SDY
492.8	SPOON		ROCK	14.9	47.2	
477.9	SPOON		BLACK SHALE	7.3	62.1	FISSILE
470.6	SPOON		SANDSTONE	5.6	69.4	WH

MAPID: 05722404000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 8N 2E

SECTION: 5

QUARTERS/FOOTAGES: 60' N line, 580' E line

QUADRANGLE: LONDON MILLS

LONGITUDE: -90.292863

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.713716

DATE COLLECTED: 5 / 3 / 1977

SURFACE ELEVATION (FT.): 621.0

LOGGED (FT.): 185.0

LOG TYPE: Drillers Log

SOURCE: HOPSON, S. C.

WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.0			UNCONSOLIDATED	46.0	0.0	
575.0	SPOON		SHALE	63.0	46.0	
512.0	SPOON	WILEY	COAL	2.0	109.0	
510.0	SPOON		SHALE	24.0	111.0	
486.0	SPOON	DELONG	COAL	3.0	135.0	
483.0	SPOON		SHALE	17.0	138.0	
466.0	SPOON	SEVILLE	LIMESTONE	30.0	155.0	

MAPID: 05700914000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 8 QUARTERS/FOOTAGES: 0' N line, 0' E line of NE NE SE
 QUADRANGLE: LONDON MILLS LONGITUDE: -90.290705 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.692071 DATE COLLECTED: 1 / 17 / 1949
 SURFACE ELEVATION (FT.): 553.1 LOGGED (FT.): 45.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
553.1			UNCONSOLIDATED	32.0	0.0	
521.1	SPOON		SHALE	8.0	32.0	DARK
513.1	SPOON		BLACK SHALE	1.3	40.0	BK.FIS
511.8	SPOON	ROCK ISLAND	COAL	1.5	41.3	
510.3	SPOON		UNDERCLAY	2.2	42.8	

MAPID: 05722406000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 8 QUARTERS/FOOTAGES: 550' N line, 500' E line of NW
 QUADRANGLE: LONDON MILLS LONGITUDE: -90.302064 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.698004 DATE COLLECTED: 12 / 15 / 1977
 SURFACE ELEVATION (FT.): 555.0 LOGGED (FT.): 280.0 LOG TYPE: Drillers Log
 SOURCE: HOPSON, S. C. WELL TYPE: Water Well
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
555.0	SPOON		ROCK	120.0	0.0	INCLUDES PLEISTOCENE
435.0	SPOON	ROCK ISLAND	COAL	2.0	120.0	BASE OF SPOON
433.0	ABBOTT		SHALE	16.0	122.0	BASE OF PENNSYLVANIAN
417.0			LIMESTONE	142.0	138.0	MISSISSIPPIAN

MAPID: 05786844000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 8 QUARTERS/FOOTAGES: NE SE
 QUADRANGLE: LONDON MILL LONGITUDE: -90.293047 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.690298 DATE COLLECTED: 1 / 17 / 1949
 SURFACE ELEVATION (FT.): 553.1 LOGGED (FT.): 45.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE D109 WELL TYPE: Coal Test
 COMMENT: SPOON RIVER BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
553.1	PLEISTOCENE		CLAY	8.0	0.0	
545.1	PLEISTOCENE		SAND & GRAVEL	24.0	8.0	
521.1			DARK SHALE	8.0	32.0	
513.1			BLACK SHALE	1.3	40.0	
511.8			COAL	1.5	41.3	SOFT
510.3			UNDERCLAY	2.2	42.8	

MAPID: 05722020000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 8N 2E

SECTION: 13

QUARTERS/FOOTAGES: NW SW NE SW

QUADRANGLE: LONDON MILLS

LONGITUDE: -90.22869

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.674629

DATE COLLECTED: 0 / 0 / 1968

SURFACE ELEVATION (FT.): 637.2

LOGGED (FT.): 739.0

LOG TYPE: Survey Core Study

SOURCE: NEW JERSEY ZINC CO.

WELL TYPE: Engineering Test Holes

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
637.2			ROCK	62.0	0.0	NO RECORD
575.2	CARBONDALE		BLACK SHALE	7.5	62.0	BK,CARB,CALC NODS,PYRC
567.7	CARBONDALE		SHALE	0.5	69.5	GY,FIS,PYRC
567.2	CARBONDALE		BLACK SHALE	0.5	70.0	BK,CALC
566.7	CARBONDALE		SHALE	5.3	70.5	GY,FIS,CARB,PYRC
561.4	CARBONDALE	COLCHESTER	COAL	1.0	75.8	BASE OF CARBONDALE
560.4	SPOON		SHALE	1.8	76.8	GY,MICS,PLNT FRAGS,COAL LAYERS AT TOP
558.5	SPOON		SILTSTONE	3.3	78.7	MICS,GY,BIOTBTD,PYRC,PLNT FRAGS
555.2	SPOON		GRAY SHALE	1.3	82.0	
553.9	SPOON		SILTSTONE	5.8	83.3	GY,INTRLAMD W/ GY SH,BIOTBTD
548.1	SPOON		SHALE	2.1	89.1	GY.STS LAMNS
546.0	SPOON		BLACK SHALE	1.7	91.2	
544.4	SPOON		SHALE	2.2	92.8	GY,CARB PLNT FRAGS
542.2	SPOON		SILTSTONE	2.7	95.0	GY,BIOTBTD
539.5	SPOON	GREENBUSH	COAL	0.5	97.7	
539.0	SPOON		SHALE	3.9	98.2	GY,PYRC
535.1	SPOON	WILEY	BLACK SHALE	1.2	102.1	CARB,GY TO BK,COALY AT BS
533.9	SPOON		SHALE	8.7	103.3	GY,BRN,BUFF
525.3	SPOON	DELONG	SHALE	0.3	111.9	DK BRN TO BUFF,COALY AT BASE
524.9	SPOON		SANDSTONE	2.7	112.3	MICS,V FN GRND,LT GY
522.3	SPOON		BLACK SHALE	1.3	114.9	BK,GY STS LAMNS
520.9	SPOON		BLACK SHALE	0.9	116.3	CARB,BK
520.0	SPOON		SHALE	4.9	117.2	GY,MICS AND STY TWRDS BASE
515.1	SPOON		BLACK SHALE	1.2	122.1	BK,STS LAMNS
513.9	SPOON		BLACK SHALE	7.9	123.3	CARB,BK,PYRC
506.0	SPOON	HERMON	COAL	1.0	131.2	
505.0	SPOON		SHALE	3.8	132.2	GY,MICS
501.2	SPOON		BLACK SHALE	11.0	136.0	BK,STY LAMNS NEAR TOP
490.2	SPOON		BLACK SHALE	7.1	147.0	BK,CALC
483.1	SPOON	SEVILLE	LIMESTONE	1.3	154.1	V ARGIL,BK TO GY,FN GRND,FOSFS
481.8	SPOON		BLACK SHALE	5.4	155.4	CALC,BK
476.4	SPOON	ROCK ISLAND	COAL	4.3	160.8	
472.0	SPOON		SHALE	0.6	165.2	BS SPOON; GY; PYRC
471.4	ABBOTT		SILTSTONE	5.3	165.8	ARGIL,GY,CARB PLNT FRAGS
466.2	ABBOTT		BLACK SHALE	11.0	171.0	BK,CARB PLNT FRAGS,PYRC,BS
455.2			ROCK	557.0	182.0	MISSISSIPPIAN TO ORDOVICIAN

MAPID: 05722020000C VERSION: 2

PROJECT: NCRDS87

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 13 QUARTERS/FOOTAGES: NW SW NE SW
 QUADRANGLE: LONDON MILLS LONGITUDE: -90.22869 GEOLOGIST: WEIBEL
 CONFIDENTIAL: N LATITUDE: 40.674629 DATE COLLECTED: 0 / 0 / 1968
 SURFACE ELEVATION (FT.): 637.3 LOGGED (FT.): 182.0 LOG TYPE: Survey Core Study
 SOURCE: NEW JERSEY ZINC CO. WELL TYPE: Mineral Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
637.3			UNCONSOLIDATED	62.0	0.0	
575.3	CARBONDALE		BLACK SHALE	7.5	62.0	
567.8	CARBONDALE		GRAY SHALE	0.5	69.5	
567.3	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.5	70.0	
566.8	CARBONDALE	FRANCIS CREEK	GRAY SHALE	5.3	70.5	
561.5	CARBONDALE	COLCHESTER	COAL	1.0	75.8	
560.5			GRAY SHALE	1.8	76.8	
558.6			SILTSTONE	3.3	78.7	
555.3			GRAY SHALE	1.3	82.0	
554.0			SILTSTONE	5.7	83.3	
548.2			GRAY SHALE	2.1	89.1	
546.1			BLACK SHALE	1.7	91.2	
544.5			GRAY SHALE	2.2	92.8	
542.3			SILTSTONE	2.7	95.0	
539.6			COAL	0.5	97.7	
539.1			GRAY SHALE	3.9	98.2	
535.2			DARK SHALE	1.2	102.1	
534.0			GRAY SHALE	3.3	103.3	
530.8			SILTSTONE	4.5	106.5	
526.3			GRAY SHALE	0.9	111.0	
525.4			DARK SHALE	0.3	111.9	
525.0			SANDSTONE	2.7	112.3	
522.4			BLACK SHALE	2.3	114.9	
520.1			GRAY SHALE	4.9	117.2	
515.2			BLACK SHALE	9.1	122.1	
506.1			COAL	1.0	131.2	
505.1			GRAY SHALE	3.8	132.2	
501.3			BLACK SHALE	18.1	136.0	
483.2	SPOON	SEVILLE	LIMESTONE	1.3	154.1	UNCERTAIN CORRELATION
481.9			BLACK SHALE	5.4	155.4	
476.5	SPOON	ROCK ISLAND	COAL	4.3	160.8	UNCERTAIN CORRELATION
472.1			GRAY SHALE	0.6	165.2	
471.5			SILTSTONE	5.3	165.8	
466.3			BLACK SHALE	11.0	171.0	
455.3			UNCLASSIFIED	0.0	182.0	TOP OF MISS.

MAPID: 05786542000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 13 QUARTERS/FOOTAGES: 660' S line, 660' W line of SE NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.217284 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678889 DATE COLLECTED: 10 / 26 / 1960

SURFACE ELEVATION (FT.): 626.0 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE D149 WELL TYPE: Coal Test

COMMENT: WEST FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
626.0	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
615.0	PLEISTOCENE		CLAY	14.0	11.0	
601.0	PLEISTOCENE		SAND & GRAVEL	30.0	25.0	
571.0	CARBONDALE		BLACK SHALE	2.0	55.0	SOFT
569.0	CARBONDALE		ROCK	1.0	57.0	
568.0	CARBONDALE		BLACK SHALE	8.0	58.0	
560.0	CARBONDALE		MICACEOUS SHALE	3.0	66.0	SOFT
557.0	CARBONDALE	COLCHESTER	COAL	2.0	69.0	GOOD
555.0	CARBONDALE		UNDERCLAY	1.0	71.0	

MAPID: 05786600000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 13 QUARTERS/FOOTAGES: 0' N line, 0' E line of NE NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.214801 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684452 DATE COLLECTED: 10 / 26 / 1960

SURFACE ELEVATION (FT.): 626.0 LOGGED (FT.): 63.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE D225 WELL TYPE: Coal Test

COMMENT: W. FAIRVIEW BOX 47

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
626.0	PLEISTOCENE		CLAY	7.0	0.0	
619.0	PLEISTOCENE		CLAY	11.0	7.0	
608.0	PLEISTOCENE		CLAY	12.0	18.0	
596.0	CARBONDALE		DARK SHALE	9.0	30.0	
587.0	CARBONDALE		MICACEOUS SHALE	8.0	39.0	
579.0	CARBONDALE		BLACK SHALE	6.0	47.0	
573.0	CARBONDALE		ROCK	1.0	53.0	
572.0	CARBONDALE		BLACK SHALE	6.0	54.0	
566.0	CARBONDALE	COLCHESTER	COAL	1.3	60.0	
564.7	CARBONDALE		MICACEOUS SHALE	1.7	61.3	

MAPID: 05786842000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 17 QUARTERS/FOOTAGES: NE SE

QUADRANGLE: LONDON MILL LONGITUDE: -90.292885 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675779 DATE COLLECTED: 1 / 7 / 1949

SURFACE ELEVATION (FT.): 572.6 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A507 WELL TYPE: Coal Test

COMMENT: SPOON RIVER BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
572.6	PLEISTOCENE		CLAY	6.0	0.0
566.6	PLEISTOCENE		SAND & GRAVEL	36.0	6.0
530.6	PLEISTOCENE		CLAY	7.0	42.0
523.6	CARBONDALE		BLACK SHALE	1.0	49.0
522.6	CARBONDALE	COLCHESTER	COAL	2.5	50.0
520.1	CARBONDALE		UNDERCLAY	2.0	52.5
518.1	CARBONDALE		SANDSTONE	0.5	54.5

MAPID: 05700684000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 21 QUARTERS/FOOTAGES: SW

QUADRANGLE: LONDON MILLS LONGITUDE: -90.285923 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.659197 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 134.0 LOG TYPE: Drillers Log

SOURCE: SPOON RIVER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			UNCONSOLIDATED	99.0	0.0
-	SPOON		SANDSTONE	4.0	99.0 GRAY
-	SPOON		LIMESTONE	6.2	103.0
-	SPOON		BLACK SHALE	4.0	109.2 FISSILE
-	SPOON		COAL	0.5	113.2
-	SPOON		ROCK	12.7	113.7
-	SPOON	ROCK ISLAND	COAL	4.7	126.3
-	SPOON		UNDERCLAY	3.0	131.0

MAPID: 05700685000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 21 QUARTERS/FOOTAGES: NW

QUADRANGLE: LONDON MILLS LONGITUDE: -90.285785 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.666492 DATE COLLECTED:

SURFACE ELEVATION (FT.): 515.0 LOGGED (FT.): 148.5 LOG TYPE: Drillers Log

SOURCE: SPOON RIVER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
515.0			UNCONSOLIDATED	57.0	0.0	
458.0	SPOON	SEVILLE	LIMESTONE	1.0	57.0	BASE OF SPOON
457.0	ABBOTT		SANDSTONE	26.0	58.0	
431.0	ABBOTT		GRAY SHALE	2.0	84.0	
429.0	ABBOTT	MANLEY	COAL	0.5	86.0	
428.5	ABBOTT		SANDSTONE	62.0	86.5	

MAPID: 05700873000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 21 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SE

QUADRANGLE: LONDON MILLS LONGITUDE: -90.276537 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.655305 DATE COLLECTED: 10 / 23 / 1948

SURFACE ELEVATION (FT.): 585.4 LOGGED (FT.): 122.8 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.4			UNCONSOLIDATED	81.0	0.0	
504.4	CARBONDALE	COLCHESTER	COAL	1.0	81.0	BASE OF CARBONDALE
503.4	SPOON		UNDERCLAY	2.0	82.0	
501.4	SPOON		SANDSTONE	38.8	84.0	

MAPID: 05700874000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 21 QUARTERS/FOOTAGES: 0' S line, 0' E line
 QUADRANGLE: LONDON MILLS LONGITUDE: -90.271804 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.655184 DATE COLLECTED: 10 / 26 / 1948
 SURFACE ELEVATION (FT.): 612.9 LOGGED (FT.): 130.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
612.9			UNCONSOLIDATED	55.0	0.0	
557.9	CARBONDALE		SHALE	8.0	55.0	
549.9	CARBONDALE		SANDSTONE	5.0	63.0	
544.9	CARBONDALE		SHALE	8.0	68.0	
536.9	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.5	76.0	BK.FIS
536.4	CARBONDALE		SANDSTONE/SHALE	18.5	76.5	
517.9	CARBONDALE	COLCHESTER	COAL	1.0	95.0	BASE OF CARBONDALE
516.9	SPOON		UNDERCLAY	2.0	96.0	
514.9	SPOON		SANDSTONE	32.0	98.0	SOME SH

MAPID: 05700878000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 21 QUARTERS/FOOTAGES: 0' N line, 165' E line of SE SW
 QUADRANGLE: LONDON MILLS LONGITUDE: -90.281803 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.659083 DATE COLLECTED: 10 / 29 / 1948
 SURFACE ELEVATION (FT.): 522.6 LOGGED (FT.): 26.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
522.6			UNCONSOLIDATED	4.0	0.0	
518.6	CARBONDALE		SHALE	6.0	4.0	"SOAPSTONE", PROB SH
512.6	CARBONDALE		ROCK	10.5	10.0	"CAP ROCK"
502.1	CARBONDALE	COLCHESTER	COAL	3.8	20.5	BASE OF CARBONDALE
498.3	SPOON		UNDERCLAY	1.8	24.3	

MAPID: 05700879000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 21 QUARTERS/FOOTAGES: SE

QUADRANGLE: LONDON MILLS LONGITUDE: -90.276487 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.658933 DATE COLLECTED: 10 / 21 / 1948

SURFACE ELEVATION (FT.): 581.5 LOGGED (FT.): 104.4 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
581.5			UNCONSOLIDATED	35.0	0.0	
546.5	CARBONDALE		SHALE	20.0	35.0	
526.5	CARBONDALE		SANDSTONE	9.0	55.0	
517.5	CARBONDALE		SHALE	17.0	64.0	
500.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.5	81.0	BK,FIS
499.0	CARBONDALE	COLCHESTER	COAL	1.3	82.5	BASE OF CARBONDALE
497.7	SPOON		UNDERCLAY	2.2	83.8	
495.5	SPOON		SANDSTONE/SHALE	10.0	86.0	
485.5	SPOON		ROCK	0.5	96.0	"CAP ROCK"
485.0	SPOON		SHALE	1.7	96.5	
483.3	SPOON	ROCK ISLAND	COAL	5.3	98.2	
478.1	SPOON		UNDERCLAY	1.0	103.4	

MAPID: 05700884000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 21 QUARTERS/FOOTAGES: 0' S line, 0' E line of SE NE

QUADRANGLE: LONDON MILLS LONGITUDE: -90.271729 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.662418 DATE COLLECTED: 12 / 21 / 1949

SURFACE ELEVATION (FT.): 577.5 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
577.5			UNCONSOLIDATED	40.0	0.0	
537.5	CARBONDALE		SHALE	28.0	40.0	
509.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.0	68.0	BK, FIS
508.5	CARBONDALE	COLCHESTER	COAL	1.3	69.0	BASE OF CARBONDALE
507.2	SPOON		UNDERCLAY	2.7	70.3	
504.5	SPOON		SANDSTONE/SHALE	5.0	73.0	
499.5	SPOON		SANDSTONE	3.0	78.0	

MAPID: 05700888000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 21 QUARTERS/FOOTAGES: NE

QUADRANGLE: LONDON MILLS LONGITUDE: -90.276391 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.666187 DATE COLLECTED: 10 / 23 / 1948

SURFACE ELEVATION (FT.): 527.7 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
527.7			UNCONSOLIDATED	42.0	0.0	
485.7	SPOON		SHALE	3.0	42.0	DARK
482.7	SPOON	ROCK ISLAND	COAL	0.3	45.0	
482.4	SPOON		SHALE	14.8	45.3	INCL 12.75 FT "SOAPSTONE"

MAPID: 05700889000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 21 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NE

QUADRANGLE: LONDON MILLS LONGITUDE: -90.27169 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.666035 DATE COLLECTED: 12 / 21 / 1948

SURFACE ELEVATION (FT.): 552.7 LOGGED (FT.): 80.3 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
552.7			UNCONSOLIDATED	75.0	0.0	
477.7	SPOON	ROCK ISLAND	COAL	1.3	75.0	
476.4	SPOON		SANDSTONE	4.0	76.3	

MAPID: 05786543000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 21 QUARTERS/FOOTAGES: 660' N line, 1' E line of SE SE

QUADRANGLE: LONDON MILL LONGITUDE: -90.271792 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65698 DATE COLLECTED: 10 / 7 / 1960

SURFACE ELEVATION (FT.): 636.7 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE H450 WELL TYPE: Coal Test

COMMENT: WEST FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
636.7	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
629.7	PLEISTOCENE		CLAY	12.0	7.0	
617.7	PLEISTOCENE		SAND & GRAVEL	48.0	19.0	
569.7	CARBONDALE		BLACK SHALE	2.0	67.0	
567.7	CARBONDALE		DARK SHALE	2.0	69.0	
565.7	CARBONDALE	COLCHESTER	COAL	1.5	71.0	GOOD
564.2	CARBONDALE		UNDERCLAY	1.5	72.5	

MAPID: 05786591000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 21 QUARTERS/FOOTAGES: 1' N line, 1' W line of SE SE

QUADRANGLE: LONDON MILL LONGITUDE: -90.276483 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65893 DATE COLLECTED: 10 / 21 / 1948

SURFACE ELEVATION (FT.): 581.5 LOGGED (FT.): 104.5 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A265 WELL TYPE: Coal Test

COMMENT: SPOON RIVER BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
581.5	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
571.5	PLEISTOCENE		SAND & GRAVEL	14.0	10.0	
557.5	PLEISTOCENE		CLAY	11.0	24.0	
546.5	CARBONDALE		SHALE	20.0	35.0	
526.5	CARBONDALE		SANDSTONE	9.0	55.0	
517.5	CARBONDALE		DARK SHALE	17.0	64.0	
500.5	CARBONDALE		BLACK SHALE	1.5	81.0	
499.0	CARBONDALE	COLCHESTER	COAL	1.3	82.5	
497.7	CARBONDALE		UNDERCLAY	2.2	83.8	
495.5	CARBONDALE		SANDSTONE/SHALE	10.0	86.0	
485.5	CARBONDALE		LIMESTONE	0.5	96.0	CAP ROCK
485.0	CARBONDALE		BLACK SHALE	1.7	96.5	
483.3	SPOON	ROCK ISLAND	COAL	5.3	98.2	
478.1	SPOON		UNDERCLAY	1.0	103.4	

MAPID: 05786841000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 21 QUARTERS/FOOTAGES: NE NE

QUADRANGLE: LONDON MILL LONGITUDE: -90.274015 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667924 DATE COLLECTED: 12 / 21 / 1948

SURFACE ELEVATION (FT.): 552.7 LOGGED (FT.): 80.3 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A367 WELL TYPE: Coal Test

COMMENT: SPOON RIVER BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
552.7	PLEISTOCENE		CLAY	7.0	0.0	
545.7	PLEISTOCENE		CLAY	10.0	7.0	
535.7	PLEISTOCENE		SAND & GRAVEL	28.0	17.0	
507.7	PLEISTOCENE		CLAY	30.0	45.0	
477.7	TRADEWATER	ROCK ISLAND	COAL	1.3	75.0	SOFT; TOP ERODED
476.4	TRADEWATER		SANDSTONE	4.0	76.3	

MAPID: 0578655000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 22 QUARTERS/FOOTAGES: 1' N line, 1' E line of SE SW
 QUADRANGLE: LONDON MILL LONGITUDE: -90.262312 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.658682 DATE COLLECTED: 9 / 26 / 1960
 SURFACE ELEVATION (FT.): 635.7 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE J455 WELL TYPE: Coal Test
 COMMENT: WEST FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.7	PLEISTOCENE		UNCONSOLIDATED	11.0	0.0	
624.7	PLEISTOCENE		SAND & GRAVEL	15.0	11.0	
609.7	CARBONDALE		SHALE	19.0	26.0	SOFT
590.7	CARBONDALE		BLACK SHALE	8.0	45.0	
582.7	CARBONDALE		LIMESTONE	2.0	53.0	CAPROCK
580.7	CARBONDALE		SANDY SHALE	11.0	55.0	
569.7	CARBONDALE	COLCHESTER	COAL	2.1	66.0	GOOD
567.6	CARBONDALE		UNDERCLAY	1.9	68.1	

MAPID: 05786861000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 22 QUARTERS/FOOTAGES: 0' N line, 660' W line of SW SW
 QUADRANGLE: LONDON MILL LONGITUDE: -90.269384 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.658772 DATE COLLECTED: 10 / 7 / 1960
 SURFACE ELEVATION (FT.): 656.9 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE J402 WELL TYPE: Coal Test
 COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
656.9	PLEISTOCENE		CLAY	9.0	0.0	
647.9	PLEISTOCENE		CLAY	16.0	9.0	
631.9	PLEISTOCENE		SAND & GRAVEL	42.0	25.0	
589.9	CARBONDALE		BLACK SHALE	2.0	67.0	
587.9	CARBONDALE		MICACEOUS SHALE	6.0	69.0	
581.9	CARBONDALE	COLCHESTER	COAL	1.8	75.0	GOOD
580.1	CARBONDALE		UNDERCLAY	1.2	76.8	

MAPID: 05786862000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 22 QUARTERS/FOOTAGES: 0' N line, 660' W line of SE SE
 QUADRANGLE: LONDON MILL LONGITUDE: -90.255199 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.658603 DATE COLLECTED: 9 / 23 / 1960
 SURFACE ELEVATION (FT.): 629.0 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE J408 WELL TYPE: Coal Test
 COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.0	PLEISTOCENE		CLAY	10.0	0.0	
619.0	PLEISTOCENE		CLAY	5.0	10.0	
614.0	CARBONDALE		SHALE	30.0	15.0	SOFT
584.0	CARBONDALE		SHALE	25.0	45.0	HARD
559.0	CARBONDALE		BLACK SHALE	6.0	70.0	HARD
553.0	CARBONDALE	COLCHESTER	COAL	2.3	76.0	GOOD
550.7	CARBONDALE		UNDERCLAY	1.8	78.3	

MAPID: 05785592000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 23 QUARTERS/FOOTAGES:
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.137288 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.65606 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 714.6 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log
 SOURCE: MIDLAND COAL CO. FARMWEST X210C WELL TYPE: Coal Test
 COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.6			UNKNOWN	87.0	0.0	NO COAL

MAPID: 05786549000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 23 QUARTERS/FOOTAGES: 660' S line, 660' E line of SW SE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.240859 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656481 DATE COLLECTED: 9 / 22 / 1960

SURFACE ELEVATION (FT.): 639.6 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE J439 WELL TYPE: Coal Test

COMMENT: WEST FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
639.6	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0	
624.6	PLEISTOCENE		CLAY	10.0	15.0	
614.6	PLEISTOCENE		CLAY	15.0	25.0	
599.6	CARBONDALE		SHALE	20.0	40.0	SOFT
579.6	CARBONDALE		SHALE	20.0	60.0	HARD
559.6	CARBONDALE		BLACK SHALE	4.0	80.0	HARD
555.6	CARBONDALE	COLCHESTER	COAL	2.3	84.0	GOOD
553.3	CARBONDALE		UNDERCLAY	1.8	86.3	

MAPID: 05786864000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 23 QUARTERS/FOOTAGES: 110' S line, 0' W line of NW SW

QUADRANGLE: LONDON MILL LONGITUDE: -90.252851 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658875 DATE COLLECTED: 9 / 27 / 1960

SURFACE ELEVATION (FT.): 633.3 LOGGED (FT.): 79.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE J461 WELL TYPE: Coal Test

COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.3	PLEISTOCENE		CLAY	15.0	0.0	
618.3	PLEISTOCENE		CLAY	10.0	15.0	
608.3	CARBONDALE		SHALE	25.0	25.0	SOFT
583.3	CARBONDALE		SHALE	15.0	50.0	HARD
568.3	CARBONDALE		BLACK SHALE	3.0	65.0	
565.3	CARBONDALE		SHALE	7.0	68.0	SOFT WHITE
558.3	CARBONDALE	COLCHESTER	COAL	2.1	75.0	GOOD
556.2	CARBONDALE		UNDERCLAY	1.9	77.1	

MAPID: 05700686000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 24 QUARTERS/FOOTAGES: 250' N line, 400' W line of NE NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.21813 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.668976 DATE COLLECTED: 11 / 0 / 1940

SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 140.0 LOG TYPE: Drillers Log

SOURCE: PETERSON, WILLIS WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			ROCK	37.0	0.0	OLD DUG WELL,MAY INCLUDE #4 COAL
613.0	CARBONDALE		BLACK SHALE	50.0	37.0	INCL BK FIS SH ABV COAL
563.0	CARBONDALE	LOWELL	COAL	1.0	87.0	
562.0	CARBONDALE		BLACK SHALE	14.0	88.0	INCL BK FIS SH ABV COAL
548.0	CARBONDALE	COLCHESTER	COAL	3.5	102.0	BASE OF CARBONDALE
544.5	SPOON		SHALE	12.5	105.5	
532.0	SPOON		LIMESTONE	22.0	118.0	INTRBDD W/ SH

MAPID: 05722411000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 24 QUARTERS/FOOTAGES: 950' N line, 2150' W line of NW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.226094 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.666895 DATE COLLECTED: 5 / 15 / 1979

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 352.0 LOG TYPE: Drillers Log

SOURCE: HOPSON, S. C. WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCONSOLIDATED	41.0	0.0	
619.0	CARBONDALE		SHALE	40.0	41.0	
579.0	CARBONDALE	COLCHESTER	COAL	5.0	81.0	BASE OF CARBONDALE
574.0			SHALE	105.0	86.0	BASE OF PENNSYLVANIAN
469.0			LIMESTONE	161.0	191.0	MISSISSIPPIAN

MAPID: 05786548000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 24 QUARTERS/FOOTAGES: 1' S line, 660' E line of SW SW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.231279 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.654583 DATE COLLECTED: 9 / 2 / 1960
 SURFACE ELEVATION (FT.): 597.6 LOGGED (FT.): 38.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE J418 WELL TYPE: Coal Test
 COMMENT: WEST FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
597.6	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
587.6	PLEISTOCENE		CLAY	5.0	10.0	
582.6	PLEISTOCENE		CLAY	3.0	15.0	
579.6	CARBONDALE		SHALE	3.0	18.0	SOFT
576.6	CARBONDALE		BLACK SHALE	4.0	21.0	
572.6	CARBONDALE		SHALE	9.0	25.0	SOFT
563.6	CARBONDALE	COLCHESTER	COAL	2.2	34.0	GOOD
561.4	CARBONDALE		UNDERCLAY	1.8	36.2	

MAPID: 05786863000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 24 QUARTERS/FOOTAGES: 660' N line, 0' E line of SE SE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.214662 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.657021 DATE COLLECTED: 10 / 12 / 1960
 SURFACE ELEVATION (FT.): 596.3 LOGGED (FT.): 27.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE J448 WELL TYPE: Coal Test
 COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
596.3	PLEISTOCENE		CLAY	5.0	0.0	
591.3	PLEISTOCENE		CLAY	5.0	5.0	
586.3	CARBONDALE		SHALE	5.0	10.0	SOFT
581.3	CARBONDALE		BLACK SHALE	3.0	15.0	
578.3	CARBONDALE		SHALE	6.0	18.0	SOFT
572.3	CARBONDALE	COLCHESTER	COAL	2.0	24.0	GOOD
570.3	CARBONDALE		UNDERCLAY	1.0	26.0	

MAPID: 05786866000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 24 QUARTERS/FOOTAGES: NW NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.221951 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667764 DATE COLLECTED: 10 / 19 / 1960

SURFACE ELEVATION (FT.): 648.0 LOGGED (FT.): 82.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE J571 WELL TYPE: Coal Test

COMMENT: W FRANKLIN BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.0	PLEISTOCENE		CLAY	9.0	0.0	
639.0	PLEISTOCENE		SAND & GRAVEL	21.0	9.0	
618.0	CARBONDALE		SANDY SHALE	22.0	30.0	
596.0	CARBONDALE		SANDY SHALE	15.0	52.0	DARK
581.0	CARBONDALE		LIMESTONE	1.0	67.0	CAP ROCK
580.0	CARBONDALE		BLACK SHALE	6.0	68.0	
574.0	CARBONDALE		MICACEOUS SHALE	4.0	74.0	
570.0	CARBONDALE	COLCHESTER	COAL	2.1	78.0	GOOD
567.9	CARBONDALE		UNDERCLAY	1.9	80.1	

MAPID: 05760005000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 25 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE SW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.224166 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.643994 DATE COLLECTED: 0 / 0 / 1949

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 22.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.0	CARBONDALE	SPRINGFIELD	COAL	4.0	18.0	SOFT

MAPID: 05760006000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 25 QUARTERS/FOOTAGES: 0' S line, 0' E line of NW SE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.219401 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.644144 DATE COLLECTED: 0 / 0 / 1949

SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 36.1 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
643.0	CARBONDALE	SPRINGFIELD	COAL	4.1	32.0	

MAPID: 05760007000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 25 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE SE NE SE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.214634 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.645202 DATE COLLECTED: 0 / 0 / 1949
 SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 44.3 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0	CARBONDALE	SPRINGFIELD	COAL	4.3	40.0	

MAPID: 05760014000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 25 QUARTERS/FOOTAGES:
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.224157 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.647611 DATE COLLECTED: 0 / 0 / 1949
 SURFACE ELEVATION (FT.): 683.0 LOGGED (FT.): 43.8 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
642.0	CARBONDALE	SPRINGFIELD	COAL	2.8	41.0	SOFT

MAPID: 05760015000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 25 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW NE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.219399 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.647769 DATE COLLECTED: 0 / 0 / 1949
 SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 20.9 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0	CARBONDALE	SPRINGFIELD	COAL	2.9	18.0	

MAPID: 05786546000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 25 QUARTERS/FOOTAGES: 660' N line, 1' E line of SE SW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.224172 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642173 DATE COLLECTED: 8 / 30 / 1960

SURFACE ELEVATION (FT.): 599.9 LOGGED (FT.): 147.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE J246 WELL TYPE: Coal Test

COMMENT: WEST FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
599.9	PLEISTOCENE		UNCONSOLIDATED	2.0	0.0	
597.9	PLEISTOCENE		SAND & GRAVEL	21.0	2.0	
576.9	CARBONDALE		SANDY SHALE	20.0	23.0	
556.9	CARBONDALE		BLACK SHALE	3.0	43.0	
553.9	CARBONDALE		SANDY SHALE	15.0	46.0	SOFT
538.9	CARBONDALE	COLCHESTER	COAL	2.2	61.0	GOOD
536.7	CARBONDALE		UNDERCLAY	1.8	63.2	
534.9	CARBONDALE		MICACEOUS SHALE	16.0	65.0	SOFT
518.9	CARBONDALE		COAL	1.0	81.0	BLOSSOM
517.9	CARBONDALE		DARK SHALE	30.0	82.0	SOFT
487.9	CARBONDALE		BLACK SHALE	3.0	112.0	
484.9	CARBONDALE		DARK SHALE	2.0	115.0	HARD
482.9	SPOON	ROCK ISLAND	COAL	2.8	117.0	
480.1	SPOON		MICACEOUS SHALE	2.2	119.8	SOFT
477.9	SPOON		SHALE	4.0	122.0	WHITE, SOFT
473.9	SPOON		DARK SHALE	12.0	126.0	
461.9	SPOON		DARK SHALE	9.0	138.0	

MAPID: 05786858000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 25 QUARTERS/FOOTAGES: NW SW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.231296 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64557 DATE COLLECTED: 9 / 8 / 1960

SURFACE ELEVATION (FT.): 646.6 LOGGED (FT.): 109.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE J317 WELL TYPE: Coal Test

COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.6	PLEISTOCENE		CLAY	12.0	0.0	
634.6	PLEISTOCENE		SAND & GRAVEL	10.0	12.0	
624.6	CARBONDALE		SHALE	40.0	22.0	SOFT
584.6	CARBONDALE		BLACK SHALE	3.0	62.0	
581.6	CARBONDALE		SHALE	20.0	65.0	
561.6	CARBONDALE		SHALE	5.0	85.0	VERY HARD
556.6	CARBONDALE		SHALE	15.0	90.0	HARD
541.6	CARBONDALE	COLCHESTER	COAL	2.2	105.0	GOOD
539.4	CARBONDALE		UNDERCLAY	1.8	107.2	

MAPID: 0578686000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 25 QUARTERS/FOOTAGES: 660' N line, 0' E line of NW NW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.228895 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65286 DATE COLLECTED: 9 / 2 / 1960

SURFACE ELEVATION (FT.): 621.9 LOGGED (FT.): 71.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE J392 WELL TYPE: Coal Test

COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.9	PLEISTOCENE		CLAY	11.0	0.0	
610.9	PLEISTOCENE		CLAY	12.0	11.0	
598.9	PLEISTOCENE		CLAY	5.0	23.0	
593.9	CARBONDALE		SANDY SHALE	33.0	28.0	DARK
560.9	CARBONDALE		BLACK SHALE	2.0	61.0	
558.9	CARBONDALE		SANDY SHALE	4.0	63.0	
554.9	CARBONDALE	COLCHESTER	COAL	2.2	67.0	GOOD
552.7	CARBONDALE		UNDERCLAY	1.8	69.2	

MAPID: 05785633000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134523 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654044 DATE COLLECTED:

SURFACE ELEVATION (FT.): 641.7 LOGGED (FT.): 18.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1668 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
641.7			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05786547000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 26 QUARTERS/FOOTAGES: 660' N line, 1' E line of SW NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.238467 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649173 DATE COLLECTED: 9 / 8 / 1960

SURFACE ELEVATION (FT.): 632.4 LOGGED (FT.): 92.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE J340 WELL TYPE: Coal Test

COMMENT: WEST FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
632.4	PLEISTOCENE		UNCONSOLIDATED	38.0	0.0	
594.4	CARBONDALE		GRAY SHALE	31.0	38.0	SOFT
563.4	CARBONDALE		BLACK SHALE	12.0	69.0	SOFT
551.4	CARBONDALE		BLACK SHALE	3.0	81.0	HARD
548.4	CARBONDALE		MICACEOUS SHALE	4.0	84.0	SOFT
544.4	CARBONDALE	COLCHESTER	COAL	2.3	88.0	GOOD
542.1	CARBONDALE		UNDERCLAY	1.8	90.3	

MAPID: 05786856000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 26 QUARTERS/FOOTAGES: SW SW

QUADRANGLE: LONDON MILL LONGITUDE: -90.250446 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642171 DATE COLLECTED: 9 / 12 / 1960

SURFACE ELEVATION (FT.): 637.8 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE J261 WELL TYPE: Coal Test

COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
637.8	PLEISTOCENE		UNCONSOLIDATED	13.0	0.0	
624.8	PLEISTOCENE		SAND & GRAVEL	55.0	13.0	
569.8	CARBONDALE		SANDY SHALE	6.0	68.0	
563.8	CARBONDALE		BLACK SHALE	3.0	74.0	HARD
560.8	CARBONDALE		SHALE	6.0	77.0	SOFT
554.8	CARBONDALE	COLCHESTER	COAL	2.2	83.0	GOOD
552.6	CARBONDALE		UNDERCLAY	1.8	85.2	

MAPID: 05786857000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 26 QUARTERS/FOOTAGES: 165' S line, 0' E line of SW NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.238463 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647843 DATE COLLECTED: 9 / 13 / 1960

SURFACE ELEVATION (FT.): 651.6 LOGGED (FT.): 99.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE J313J WELL TYPE: Coal Test

COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.6	PLEISTOCENE		CLAY	14.0	0.0	
637.6	PLEISTOCENE		CLAY	22.0	14.0	
615.6	PLEISTOCENE		SAND & GRAVEL	33.0	36.0	
582.6	CARBONDALE		SANDY SHALE	18.0	69.0	DARK
564.6	CARBONDALE		LIMESTONE	2.0	87.0	
562.6	CARBONDALE		SANDY SHALE	6.0	89.0	HARD
556.6	CARBONDALE	COLCHESTER	COAL	2.1	95.0	GOOD
554.5	CARBONDALE		UNDERCLAY	1.9	97.1	

MAPID: 05700870000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 27 QUARTERS/FOOTAGES: 60' S line, 100' W line of NE NW

QUADRANGLE: LONDON MILLS LONGITUDE: -90.266741 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.651652 DATE COLLECTED: 12 / 21 / 1948

SURFACE ELEVATION (FT.): 568.2 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
568.2			UNCONSOLIDATED	18.0	0.0	
550.2	CARBONDALE		SHALE	9.0	18.0	
541.2	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	27.0	
539.2	CARBONDALE		SHALE	2.0	29.0	
537.2	CARBONDALE	COLCHESTER	COAL	2.2	31.0	BASE OF CARBONDALE
535.0	SPOON		UNDERCLAY	5.0	33.2	
530.0	SPOON		SHALE	17.7	38.2	
512.4	SPOON		ROCK	2.0	55.8	"CAP ROCK"
510.4	SPOON		BLACK SHALE	2.4	57.8	
507.9	SPOON	ROCK ISLAND	COAL WITH SHALE	4.1	60.3	0.5 FT CLY BND
503.9	SPOON		UNDERCLAY	2.0	64.3	BASE OF SPOON
501.9	ABBOTT		SHALE & SANDSTONE	3.0	66.3	
498.9	ABBOTT		SANDSTONE	2.7	69.3	

MAPID: 05700875000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 27 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NW

QUADRANGLE: LONDON MILLS LONGITUDE: -90.267065 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.65512 DATE COLLECTED: 10 / 27 / 1948

SURFACE ELEVATION (FT.): 644.6 LOGGED (FT.): 114.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.6			UNCONSOLIDATED	52.0	0.0	
592.6	SPOON		SHALE	5.0	52.0	DARK
587.6	SPOON		SANDSTONE	1.5	57.0	
586.1	SPOON	WILEY	BLACK SHALE	1.5	58.5	BK,FIS
584.6	SPOON		UNDERCLAY	3.0	60.0	
581.6	SPOON		BLACK SHALE	1.5	63.0	BK,FIS
580.1	SPOON	DELONG	COAL	0.5	64.5	
579.6	SPOON		SANDSTONE/SHALE	20.0	65.0	
559.6	SPOON	HERMON	COAL	1.0	85.0	
558.6	SPOON		UNDERCLAY	2.0	86.0	
556.6	SPOON		SANDSTONE/SHALE	20.5	88.0	
536.1	SPOON		BLACK SHALE	0.3	108.5	BK,FIS
535.8	SPOON	ROCK ISLAND	COAL	0.7	108.8	
535.1	SPOON		UNDERCLAY	2.5	109.5	BASE OF SPOON
532.6	ABBOTT		SANDSTONE	2.0	112.0	

MAPID: 05784716000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.154862 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64734 DATE COLLECTED: 2 / 21 / 1964

SURFACE ELEVATION (FT.): 695.4 LOGGED (FT.): 13.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 728 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.4	PLEISTOCENE		SOIL	1.0	0.0	
694.4	CARBONDALE		SHALE	6.5	1.0	WEATHERED
687.9	CARBONDALE	HERRIN	COAL	1.6	7.5	SOFT
686.3	CARBONDALE	HERRIN	COAL	2.8	9.1	
683.5	CARBONDALE		UNDERCLAY	1.9	11.9	

MAPID: 05784731000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141265

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.641149

DATE COLLECTED: 3 / 16 / 1964

SURFACE ELEVATION (FT.): 720.3 LOGGED (FT.): 32.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 822

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.3	PLEISTOCENE		SOIL	1.0	0.0	
719.3	PLEISTOCENE		CLAY	1.5	1.0	
717.8	CARBONDALE		GRAY SHALE	5.3	2.5	
712.5	CARBONDALE		SANDSTONE	24.2	7.8	LOST WATER
688.3	CARBONDALE	HERRIN	CAVITY	-	32.0	

MAPID: 05786531000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 27 QUARTERS/FOOTAGES: 60' S line, 100' W line of NE NW

QUADRANGLE: LONDON MILL LONGITUDE: -90.266741

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651652

DATE COLLECTED: 12 / 21 / 1948

SURFACE ELEVATION (FT.): 568.2 LOGGED (FT.): 72.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A169

WELL TYPE: Coal Test

COMMENT: SPOON RIVER BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
568.2	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
560.2	PLEISTOCENE		SANDY CLAY	10.0	8.0	
550.2	CARBONDALE		SHALE	9.0	18.0	
541.2	CARBONDALE		BLACK SHALE	2.0	27.0	
539.2	CARBONDALE		SHALE	2.0	29.0	
537.2	CARBONDALE	COLCHESTER	COAL	2.2	31.0	
535.0	CARBONDALE		UNDERCLAY	5.0	33.2	
530.0	CARBONDALE		SHALE	17.7	38.2	
512.4	CARBONDALE		LIMESTONE	2.0	55.8	CAP ROCK
510.4	CARBONDALE		BLACK SHALE	2.4	57.8	
507.9	SPOON	ROCK ISLAND	COAL	2.3	60.3	GOOD
505.6	SPOON	ROCK ISLAND	CLAYSTONE	0.5	62.6	
505.1	SPOON	ROCK ISLAND	COAL	1.3	63.1	FAIR
503.9	SPOON		UNDERCLAY	2.0	64.3	
501.9	SPOON		SHALE & SANDSTONE	3.0	66.3	
498.9	SPOON		SANDSTONE	2.7	69.3	

MAPID: 05786859000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 27 QUARTERS/FOOTAGES: 710' S line, 0' E line of NE NE

QUADRANGLE: LONDON MILL LONGITUDE: -90.252844 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653249 DATE COLLECTED: 9 / 23 / 1960

SURFACE ELEVATION (FT.): 593.1 LOGGED (FT.): 37.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE J382 WELL TYPE: Coal Test

COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
593.1	PLEISTOCENE		CLAY	4.0	0.0	
589.1	PLEISTOCENE		CLAY	13.0	4.0	
576.1	CARBONDALE		SHALE	7.0	17.0	SOFT
569.1	CARBONDALE		BLACK SHALE	2.0	24.0	
567.1	CARBONDALE		LIMESTONE	2.0	26.0	CAP ROCK
565.1	CARBONDALE		BLACK SHALE	2.0	28.0	
563.1	CARBONDALE		SANDY SHALE	4.0	30.0	LIGHT
559.1	CARBONDALE	COLCHESTER	COAL	1.8	34.0	SOFT
557.3	CARBONDALE		UNDERCLAY	1.2	35.8	

MAPID: 05700690000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 28 QUARTERS/FOOTAGES: SW

QUADRANGLE: LONDON MILLS LONGITUDE: -90.286188 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.644542 DATE COLLECTED:

SURFACE ELEVATION (FT.): 515.0 LOGGED (FT.): 59.8 LOG TYPE: Drillers Log

SOURCE: SPOON RIVER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
515.0			UNCONSOLIDATED	25.0	0.0	
490.0	SPOON		ROCK	15.5	25.0	GRAY
474.5	SPOON	SEVILLE	LIMESTONE	6.0	40.5	
468.5	SPOON	ROCK ISLAND	COAL	0.3	46.5	
468.2	SPOON		SANDSTONE	6.0	46.8	GRAY
462.2	SPOON		SHALE	7.0	52.8	

MAPID: 05700692000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: LONDON MILLS

LONGITUDE: -90.281386

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.648116

DATE COLLECTED:

SURFACE ELEVATION (FT.):

LOGGED (FT.): 59.6

LOG TYPE: Drillers Log

SOURCE: SPOON RIVER COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	17.5	0.0	
-	SPOON		UNDERCLAY	3.4	17.5	"FIRECLAY"
-	SPOON		SHALE	7.0	20.9	
-	SPOON	SEVILLE	LIMESTONE	12.0	27.9	
-	SPOON		SHALE	15.0	39.9	"CLOD", CALC SH
-	SPOON	ROCK ISLAND	COAL	3.2	54.9	
-	SPOON		UNDERCLAY	1.5	58.1	

MAPID: 05700857000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 28 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SW

QUADRANGLE: LONDON MILLS

LONGITUDE: -90.290934

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.644627

DATE COLLECTED: 11 / 8 / 1948

SURFACE ELEVATION (FT.): 514.7

LOGGED (FT.): 57.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
514.7			UNCONSOLIDATED	16.0	0.0	
498.7	SPOON		SHALE	6.0	16.0	
492.7	SPOON		ROCK	0.8	22.0	"CAP ROCK"
491.9	SPOON	ROCK ISLAND	COAL	4.0	22.8	
487.9	SPOON		UNDERCLAY	2.0	26.8	BASE OF SPOON
485.9	ABBOTT		SANDSTONE/SHALE	28.3	28.8	

MAPID: 05700859000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 28 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE SW
 QUADRANGLE: LONDON MILLS LONGITUDE: -90.281446 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.64446 DATE COLLECTED: 10 / 29 / 1948
 SURFACE ELEVATION (FT.): 520.5 LOGGED (FT.): 51.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
520.5			UNCONSOLIDATED	20.0	0.0	
500.5			SHALE	3.0	20.0	INC 1 FT "SOAPSTONE"
497.5			COAL	1.0	23.0	
496.5			UNDERCLAY	1.0	24.0	BASE OF SPOON
495.5	ABBOTT		SANDSTONE	26.0	25.0	WH

MAPID: 05700863000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 28 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW NW
 QUADRANGLE: LONDON MILLS LONGITUDE: -90.286125 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.648212 DATE COLLECTED: 11 / 5 / 1948
 SURFACE ELEVATION (FT.): 519.2 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
519.2			UNCONSOLIDATED	18.0	0.0	
501.2	SPOON		SHALE	6.0	18.0	
495.2	SPOON		SANDSTONE	2.5	24.0	
492.7	SPOON	ROCK ISLAND	COAL	0.5	26.5	
492.2	SPOON		UNDERCLAY	1.0	27.0	BASE OF SPOON
491.2	ABBOTT		SANDSTONE	10.0	28.0	
481.2	ABBOTT		SANDSTONE/SHALE	22.0	38.0	

MAPID: 05700866000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 28 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NE
 QUADRANGLE: LONDON MILLS LONGITUDE: -90.276647 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.64802 DATE COLLECTED: 12 / 21 / 1948
 SURFACE ELEVATION (FT.): 525.6 LOGGED (FT.): 29.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
525.6			UNCONSOLIDATED	20.0	0.0	
505.6	SPOON		BLACK SHALE	2.0	20.0	
503.6	SPOON		BLACK SHALE	1.0	22.0	BK.FIS
502.6	SPOON	ROCK ISLAND	COAL	2.0	23.0	
500.6	SPOON		UNDERCLAY	2.0	25.0	BASE OF SPOON
498.6	ABBOTT		SANDSTONE	2.0	27.0	

MAPID: 05700867000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 28 QUARTERS/FOOTAGES: 50' S line, 0' E line of SE NE
 QUADRANGLE: LONDON MILLS LONGITUDE: -90.271906 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.648062 DATE COLLECTED: 12 / 21 / 1948
 SURFACE ELEVATION (FT.): 529.0 LOGGED (FT.): 26.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
529.0			UNCONSOLIDATED	18.0	0.0	
511.0	SPOON		SHALE	3.0	18.0	DARK
508.0	SPOON		BLACK SHALE	0.5	21.0	BK.FIS
507.5	SPOON	ROCK ISLAND	COAL	2.3	21.5	
505.2	SPOON		UNDERCLAY	2.2	23.8	

MAPID: 05786840000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 28 QUARTERS/FOOTAGES: SW SW

QUADRANGLE: LONDON MILL LONGITUDE: -90.288594 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642747 DATE COLLECTED: 11 / 8 / 1948

SURFACE ELEVATION (FT.): 514.7 LOGGED (FT.): 57.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE B217C WELL TYPE: Coal Test

COMMENT: SPOON RIVER BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
514.7	PLEISTOCENE		CLAY	6.0	0.0	
508.7	PLEISTOCENE		CLAY	10.0	6.0	
498.7	TRADEWATER		SHALE	6.0	16.0	
492.7	TRADEWATER		LIMESTONE	0.8	22.0	CAPROCK
491.9	TRADEWATER	ROCK ISLAND	COAL	1.0	22.8	SOFT
490.9	TRADEWATER	ROCK ISLAND	COAL	2.0	23.8	FAIR
488.9	TRADEWATER	ROCK ISLAND	COAL	1.0	25.8	SOFT
487.9	TRADEWATER		UNDERCLAY	2.0	26.8	
485.9	TRADEWATER		SANDSTONE/SHALE	28.3	28.8	

MAPID: 05786852000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 28 QUARTERS/FOOTAGES: SE SE

QUADRANGLE: LONDON MILL LONGITUDE: -90.274354 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64252 DATE COLLECTED: 10 / 5 / 1960

SURFACE ELEVATION (FT.): 632.2 LOGGED (FT.): 137.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE H225 WELL TYPE: Coal Test

COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
632.2	PLEISTOCENE		CLAY	9.0	0.0	
623.2	PLEISTOCENE		CLAY	16.0	9.0	
607.2	PLEISTOCENE		SAND & GRAVEL	60.0	25.0	
547.2	TRADEWATER		MICACEOUS SHALE	22.0	85.0	SOFT
525.2	TRADEWATER		SANDY SHALE	2.0	107.0	
523.2	TRADEWATER		BLACK SHALE	23.0	109.0	
500.2	TRADEWATER	ROCK ISLAND	COAL	2.0	132.0	GOOD
498.2	TRADEWATER		UNDERCLAY	2.0	134.0	
496.2	TRADEWATER			1.0	136.0	

MAPID: 05786853000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 28 QUARTERS/FOOTAGES: NE NE

QUADRANGLE: LONDON MILL LONGITUDE: -90.274197 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653427 DATE COLLECTED: 10 / 7 / 1960

SURFACE ELEVATION (FT.): 585.5 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE H423 WELL TYPE: Coal Test

COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.5	PLEISTOCENE		CLAY	20.0	0.0	
565.5	PLEISTOCENE		CLAY	15.0	20.0	
550.5	PLEISTOCENE		CLAY	40.0	35.0	
510.5	TRADEWATER		SHALE	2.0	75.0	SOFT
508.5	TRADEWATER	ROCK ISLAND	COAL	2.0	77.0	GOOD
506.5	TRADEWATER	ROCK ISLAND	COAL	1.0	79.0	SOFT
505.5	TRADEWATER		UNDERCLAY	1.0	80.0	

MAPID: 05700702000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 29 QUARTERS/FOOTAGES:

QUADRANGLE: LONDON MILLS LONGITUDE: -90.300291 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.648496 DATE COLLECTED:

SURFACE ELEVATION (FT.): 515.0 LOGGED (FT.): 40.7 LOG TYPE: Drillers Log

SOURCE: SPOON RIVER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
515.0			UNCONSOLIDATED	21.0	0.0	
494.0	SPOON		COAL	0.5	21.0	"BLOSSOM"
493.5	SPOON		SANDSTONE	12.2	21.5	
481.3	SPOON	ROCK ISLAND	COAL	2.0	33.7	BS SPOON; "SMALL BANDS OF COAL"
479.3	ABBOTT		SANDSTONE	5.0	35.7	

MAPID: 05700896000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 32 QUARTERS/FOOTAGES: 0' N line, 660' E line of SW SE
 QUADRANGLE: LONDON MILLS LONGITUDE: -90.298259 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.630278 DATE COLLECTED: 12 / 31 / 1949
 SURFACE ELEVATION (FT.): 510.7 LOGGED (FT.): 37.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
510.7			UNCONSOLIDATED	19.0	0.0	
491.7	SPOON		SHALE	3.0	19.0	
488.7	SPOON		SANDSTONE	11.0	22.0	
477.7	SPOON		SHALE	1.0	33.0	DARK
476.7	SPOON	ROCK ISLAND	COAL	2.0	34.0	
474.7	SPOON		UNDERCLAY	1.0	36.0	

MAPID: 05700900000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 32 QUARTERS/FOOTAGES:
 QUADRANGLE: LONDON MILLS LONGITUDE: -90.300554 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.633949 DATE COLLECTED: 12 / 31 / 1949
 SURFACE ELEVATION (FT.): 510.5 LOGGED (FT.): 36.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
510.5			UNCONSOLIDATED	18.0	0.0	
492.5	SPOON		SHALE	14.0	18.0	DARK
478.5	SPOON	ROCK ISLAND	COAL	2.0	32.0	
476.5	SPOON		UNDERCLAY	2.0	34.0	

MAPID: 05700901000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 32 QUARTERS/FOOTAGES: 50' N line, 0' E line of NW SE
 QUADRANGLE: LONDON MILLS LONGITUDE: -90.295821 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.633696 DATE COLLECTED: 0 / 0 / 1949
 SURFACE ELEVATION (FT.): 514.2 LOGGED (FT.): 21.1 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
514.2			UNCONSOLIDATED	4.0	0.0	
510.2	SPOON		SANDSTONE	10.0	4.0	
500.2	SPOON	ROCK ISLAND	COAL	2.1	14.0	
498.1	SPOON		UNDERCLAY	4.0	16.1	BASE OF SPOON
494.1	ABBOTT		SANDSTONE	1.0	20.1	

MAPID: 05786843000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 32 QUARTERS/FOOTAGES: 0' S line, 660' E line of SW SE
 QUADRANGLE: LONDON MILL LONGITUDE: -90.298275 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.626669 DATE COLLECTED: 12 / 31 / 1948
 SURFACE ELEVATION (FT.): 510.7 LOGGED (FT.): 37.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE B472 WELL TYPE: Coal Test
 COMMENT: SPOON RIVER BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
510.7	PLEISTOCENE		CLAY	6.0	0.0	
504.7	PLEISTOCENE		SAND & GRAVEL	13.0	6.0	
491.7	TRADEWATER		SHALE	3.0	19.0	
488.7	TRADEWATER		SANDSTONE	11.0	22.0	
477.7	TRADEWATER		DARK SHALE	1.0	33.0	
476.7	TRADEWATER	ROCK ISLAND	COAL	2.0	34.0	FAIR
474.7	TRADEWATER		UNDERCLAY	1.0	36.0	

MAPID: 05722413000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 33 QUARTERS/FOOTAGES: SW SE SW
 QUADRANGLE: LONDON MILLS LONGITUDE: -90.285217 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.627319 DATE COLLECTED: 9 / 20 / 1978
 SURFACE ELEVATION (FT.): 560.0 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log
 SOURCE: LOGAN, JAMES R. WELL TYPE: Water Well
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.0			UNCONSOLIDATED	19.0	0.0	
541.0	CARBONDALE		SHALE	31.0	19.0	
510.0	CARBONDALE	COLCHESTER	COAL	3.0	50.0	BASE OF CARBONDALE
507.0	SPOON		SHALE	17.0	53.0	

MAPID: 0572308000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 35 QUARTERS/FOOTAGES: 150' N line, 0' W line of SW SE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.243393 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.628958 DATE COLLECTED: 2 / 0 / 1949
 SURFACE ELEVATION (FT.): 653.8 LOGGED (FT.): 34.7 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.8			UNCONSOLIDATED	20.0	0.0	
633.8	CARBONDALE		SHALE	5.0	20.0	
628.8	CARBONDALE	EXCELLO	BLACK SHALE	4.0	25.0	
624.8	CARBONDALE	HOUCHIN CREEK	COAL	3.7	29.0	"SOFT AND SHELLY"
621.1	CARBONDALE		UNDERCLAY	2.0	32.7	

MAPID: 05760001000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 35 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW NW
 QUADRANGLE: LONDON MILLS LONGITUDE: -90.252922 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.636767 DATE COLLECTED: 0 / 0 / 1949
 SURFACE ELEVATION (FT.): 630.1 LOGGED (FT.): 96.7 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
535.1	CARBONDALE	COLCHESTER	COAL	1.7	95.0	BASE OF CARBONDALE

MAPID: 05785756000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 35 QUARTERS/FOOTAGES:
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.13165 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.627389 DATE COLLECTED: 11 / 11 / 1976
 SURFACE ELEVATION (FT.): 742.1 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log
 SOURCE: MIDLAND COAL CO. FARMWEST 26138 WELL TYPE: Coal Test
 COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.1	PLEISTOCENE		SOIL	1.0	0.0	
741.1	PLEISTOCENE		SANDY CLAY	22.6	1.0	
718.5	PLEISTOCENE		CLAY	0.4	23.6	
718.1	PLEISTOCENE		BOULDER	1.1	24.0	
717.0	PLEISTOCENE		CLAY	42.9	25.1	
674.1	PLEISTOCENE		SANDY CLAY	2.0	68.0	

MAPID: 05786544000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 35 QUARTERS/FOOTAGES: 1' N line, 1' E line of SE SE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.233695 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.629219 DATE COLLECTED: 9 / 19 / 1960
 SURFACE ELEVATION (FT.): 693.8 LOGGED (FT.): 147.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE J67 WELL TYPE: Coal Test
 COMMENT: WEST FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.8	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
687.8	PLEISTOCENE		CLAY	12.0	6.0	
675.8	PLEISTOCENE		CLAY	21.0	18.0	
654.8	CARBONDALE		SANDY SHALE	35.0	39.0	SOFT
619.8	CARBONDALE		MICACEOUS SHALE	10.0	74.0	
609.8	CARBONDALE		SANDY SHALE	41.0	84.0	
568.8	CARBONDALE		BLACK SHALE	17.0	125.0	
551.8	CARBONDALE		MICACEOUS SHALE	3.0	142.0	
548.8	CARBONDALE	COLCHESTER	COAL	1.5	145.0	FAIR
547.3	CARBONDALE		UNDERCLAY	0.5	146.5	

MAPID: 05786854000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 35 QUARTERS/FOOTAGES: 0' S line, 165' W line of NW NE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.242718 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.63661 DATE COLLECTED: 9 / 15 / 1960
 SURFACE ELEVATION (FT.): 655.5 LOGGED (FT.): 119.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE J113N WELL TYPE: Coal Test
 COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.5	PLEISTOCENE		CLAY	17.0	0.0	
638.5	PLEISTOCENE		CLAY	11.0	17.0	
627.5	CARBONDALE		SHALE	20.0	28.0	SOFT
607.5	CARBONDALE		SANDY SHALE	35.0	48.0	
572.5	CARBONDALE		BLACK SHALE	23.0	83.0	
549.5	CARBONDALE		LIMESTONE	1.0	106.0	CAP ROCK
548.5	CARBONDALE		SANDY SHALE	8.0	107.0	
540.5	CARBONDALE	COLCHESTER	COAL	2.1	115.0	GOOD
538.4	CARBONDALE		UNDERCLAY	1.9	117.1	

MAPID: 05786855000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 35 QUARTERS/FOOTAGES: NW NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.240898 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638395 DATE COLLECTED: 9 / 15 / 1960

SURFACE ELEVATION (FT.): 662.8 LOGGED (FT.): 130.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE J163 WELL TYPE: Coal Test

COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.8	PLEISTOCENE		CLAY	12.0	0.0	
650.8	PLEISTOCENE		CLAY	11.0	12.0	
639.8	PLEISTOCENE		CLAY	21.0	23.0	
618.8	CARBONDALE		MICACEOUS SHALE	40.0	44.0	SOFT
578.8	CARBONDALE		BLACK SHALE	5.0	84.0	SOFT
573.8	CARBONDALE		SANDY SHALE	26.0	89.0	
547.8	CARBONDALE		LIMESTONE	2.0	115.0	
545.8	CARBONDALE		BLACK SHALE	2.0	117.0	SOFT
543.8	CARBONDALE		BLACK SHALE	1.0	119.0	HARD
542.8	CARBONDALE		MICACEOUS SHALE	6.0	120.0	SOFT
536.8	CARBONDALE	COLCHESTER	COAL	2.2	126.0	GOOD
534.6	CARBONDALE		UNDERCLAY	1.8	128.2	

MAPID: 05723090000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 2E SECTION: 36 QUARTERS/FOOTAGES: 0' N line, 15' W line of SW SW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.233637 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.629223 DATE COLLECTED: 0 / 0 / 1950

SURFACE ELEVATION (FT.): 663.6 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.6			UNCONSOLIDATED	21.0	0.0	
642.6	CARBONDALE		ROCK	23.5	21.0	"HARD PAN"
619.1	CARBONDALE	EXCELLO	BLACK SHALE	1.0	44.5	FISSILE
618.1	CARBONDALE	HOUCHIN CREEK	COAL	0.5	45.5	"BLOSSOM"
617.6	CARBONDALE		UNDERCLAY	1.0	46.0	
616.6	CARBONDALE		SANDSTONE/SHALE	31.0	47.0	

MAPID: 05760002000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 2E **SECTION:** 36 **QUARTERS/FOOTAGES:** 0' S line, 0' E line of NE NE
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.214606 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.636815 **DATE COLLECTED:** 0 / 0 / 1949
SURFACE ELEVATION (FT.): 700.0 **LOGGED (FT.):** 47.3 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
657.0	CARBONDALE	SPRINGFIELD	COAL	4.3	43.0	

MAPID: 05760003000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 2E **SECTION:** 36 **QUARTERS/FOOTAGES:** 0' N line, 0' E line of NW NE
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.219403 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.640519 **DATE COLLECTED:** 0 / 0 / 1949
SURFACE ELEVATION (FT.): 650.0 **LOGGED (FT.):** 52.1 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
602.0	CARBONDALE	SPRINGFIELD	COAL	4.1	48.0	

MAPID: 05760004000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 2E **SECTION:** 36 **QUARTERS/FOOTAGES:** 0' N line, 0' E line of NE
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.214631 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.640661 **DATE COLLECTED:** 0 / 0 / 1949
SURFACE ELEVATION (FT.): 690.0 **LOGGED (FT.):** 56.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
638.0	CARBONDALE	SPRINGFIELD	COAL	4.0	52.0	

MAPID: 05786545000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: FULTON **TWP/RNG:** 8N 2E **SECTION:** 36 **QUARTERS/FOOTAGES:** 1' S line, 1' W line of SE NW
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.228913 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.632879 **DATE COLLECTED:** 9 / 19 / 1960
SURFACE ELEVATION (FT.): 676.2 **LOGGED (FT.):** 141.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE J119 **WELL TYPE:** Coal Test
COMMENT: WEST FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.2	PLEISTOCENE		UNCONSOLIDATED	14.0	0.0	
662.2	PLEISTOCENE		CLAY	13.0	14.0	
649.2	PLEISTOCENE		SAND & GRAVEL	30.0	27.0	
619.2	CARBONDALE		SANDY SHALE	38.0	57.0	
581.2	CARBONDALE		BLACK SHALE	24.0	95.0	
557.2	CARBONDALE		SANDY SHALE	18.0	119.0	
539.2	CARBONDALE	COLCHESTER	COAL	2.2	137.0	GOOD
537.0	CARBONDALE		UNDERCLAY	1.8	139.2	

MAPID: 05786851000C **VERSION:** 1 **PROJECT:** OMM02
COUNTY: FULTON **TWP/RNG:** 8N 2E **SECTION:** 36 **QUARTERS/FOOTAGES:** 330' S line, 495' W line of SW SE
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.222323 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.626312 **DATE COLLECTED:** 5 / 29 / 1957
SURFACE ELEVATION (FT.): 700.0 **LOGGED (FT.):** 50.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE C621I **WELL TYPE:** Coal Test
COMMENT: SW FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.0	PLEISTOCENE		CLAY	17.0	0.0	
683.0	PLEISTOCENE		CLAY	26.0	17.0	
657.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	43.0	
655.5	CARBONDALE	SPRINGFIELD	COAL	4.1	44.5	GOOD
651.4	CARBONDALE		UNDERCLAY	1.4	48.6	

MAPID: 05760035000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 1 **QUARTERS/FOOTAGES:** 15' S line, 60' W line of SW SW SW
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.119575 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.698835 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 710.0 **LOGGED (FT.):** 25.2 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.2	CARBONDALE	HERRIN	COAL	4.3	21.8	

MAPID: 05760037000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 1 **QUARTERS/FOOTAGES:** 15' S line, 15' E line of SE SW SW
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.115124 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.698773 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 720.0 **LOGGED (FT.):** 34.5 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.5	CARBONDALE	HERRIN	COAL	5.0	29.5	

MAPID: 05760038000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 1 **QUARTERS/FOOTAGES:** 15' S line, 15' E line of SE SW
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.110403 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.698703 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 725.0 **LOGGED (FT.):** 50.0 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.7	CARBONDALE	HERRIN	COAL	4.8	45.3	

MAPID: 05760039000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 1 **QUARTERS/FOOTAGES:** 15' S line, 15' E line of SW SE
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.10568 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.698634 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 725.0 **LOGGED (FT.):** 49.3 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.2	CARBONDALE	HERRIN	COAL	4.4	44.8	

MAPID: 05760040000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 1 **QUARTERS/FOOTAGES:** 15' S line, 45' E line of SE SE
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.101065 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.698566 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 723.0 **LOGGED (FT.):** 47.5 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.6	CARBONDALE	HERRIN	COAL	5.1	42.4	

MAPID: 05760041000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES: 45' N line, 165' E line of NE SE
 QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10142 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.705676 DATE COLLECTED: 12 / 11 / 1928
 SURFACE ELEVATION (FT.): 721.0 LOGGED (FT.): 45.4 LOG TYPE: Drillers Log
 SOURCE: STONEFORT COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.7	CARBONDALE	HERRIN	COAL	5.2	40.3

MAPID: 05760042000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES: 60' N line, 0' W line of NW SE
 QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110255 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.705731 DATE COLLECTED: 12 / 11 / 1928
 SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 48.7 LOG TYPE: Drillers Log
 SOURCE: STONEFORT COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.6	CARBONDALE	HERRIN	COAL	4.3	44.4

MAPID: 05770343000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:
 QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110264 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.705888 DATE COLLECTED: 12 / 7 / 1965
 SURFACE ELEVATION (FT.): 692.5 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log
 SOURCE: MIDLAND COAL CO. FARMWEST 8974 WELL TYPE: Coal Test
 COMMENT: LOCATIONS DIGITIZED FROM CO. MAP 1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
692.5	PLEISTOCENE		SHALEY CLAYSTONE	30.7	0.0
661.8	CARBONDALE		GRAY SHALE	46.3	30.7
615.5	CARBONDALE	TURNER MINE	SHALE	3.5	77.0
612.0	CARBONDALE	SPRINGFIELD	COAL	3.5	80.5
608.5	CARBONDALE		UNDERCLAY	1.0	84.0

MAPID: 05784134000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100966

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.698848

DATE COLLECTED: 6 / 5 / 1975

SURFACE ELEVATION (FT.): 725.8 LOGGED (FT.): 109.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22882

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.8	PLEISTOCENE		UNCONSOLIDATED	46.2	0.0	
679.6	CARBONDALE		SANDSTONE/SHALE	45.8	46.2	
633.8	CARBONDALE		DARK SHALE	11.0	92.0	
622.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	103.0	
621.4	CARBONDALE	SPRINGFIELD	COAL	3.4	104.4	
618.0	CARBONDALE		UNDERCLAY	1.2	107.8	

MAPID: 05784137000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101956

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700672

DATE COLLECTED: 6 / 6 / 1975

SURFACE ELEVATION (FT.): 725.9 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22885

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.9	PLEISTOCENE		CLAY	26.5	0.0	YELLOW
699.4	PLEISTOCENE		CLAY	2.2	26.5	GRAY
697.2	CARBONDALE		GRAY SHALE	10.4	28.7	
686.8	CARBONDALE		SANDSTONE	6.2	39.1	
680.6	CARBONDALE		SHALE & SANDSTONE	14.7	45.3	

MAPID: 05784138000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105479

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700593

DATE COLLECTED: 6 / 6 / 1975

SURFACE ELEVATION (FT.): 727.6 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22886

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.6	PLEISTOCENE		CLAY	28.7	0.0	
698.9	CARBONDALE		GRAY SHALE	1.3	28.7	
697.6	CARBONDALE		SANDSTONE	2.6	30.0	
695.0	CARBONDALE		SHALE & SANDSTONE	12.1	32.6	
682.9	CARBONDALE	BRERETON	LIMESTONE	2.3	44.7	
680.6	CARBONDALE		CLAYSTONE	1.4	47.0	WHITE TOP
679.2	CARBONDALE	HERRIN	COAL	2.0	48.4	
677.2	CARBONDALE		UNDERCLAY	1.8	50.4	
675.4	CARBONDALE		MICACEOUS SHALE	13.8	52.2	
661.6	CARBONDALE		LIMESTONE	1.1	66.0	
660.5	CARBONDALE		GRAY SHALE	25.4	67.1	
635.1	CARBONDALE		DARK SHALE	13.8	92.5	
621.3	CARBONDALE	ST. DAVID	LIMESTONE	0.4	106.3	
620.9	CARBONDALE	TURNER MINE	DARK SHALE	1.4	106.7	
619.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	108.1	
618.2	CARBONDALE	SPRINGFIELD	COAL	3.6	109.4	
614.6	CARBONDALE		UNDERCLAY	2.0	113.0	

MAPID: 05784139000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106668

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.70059

DATE COLLECTED: 6 / 6 / 1975

SURFACE ELEVATION (FT.): 727.5 LOGGED (FT.): 54.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22887

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.5	PLEISTOCENE		CLAY	29.0	0.0	
698.5	CARBONDALE		GRAY SHALE	1.5	29.0	
697.0	CARBONDALE		SANDSTONE	6.5	30.5	
690.5	CARBONDALE		GRAY SHALE	8.6	37.0	
681.9	CARBONDALE	BRERETON	LIMESTONE	3.4	45.6	
678.5	CARBONDALE		CLAYSTONE	0.9	49.0	WHITE TOP
677.6	CARBONDALE	HERRIN	COAL	2.1	49.9	
675.5	CARBONDALE		UNDERCLAY	2.0	52.0	

MAPID: 05784140000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107861

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700592

DATE COLLECTED: 6 / 9 / 1975

SURFACE ELEVATION (FT.): 726.3 LOGGED (FT.): 116.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22888

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
726.3	PLEISTOCENE		CLAY	27.8	0.0
698.5	CARBONDALE		GRAY SHALE	2.4	27.8
696.1	CARBONDALE		SANDSTONE	11.5	30.2
684.6	CARBONDALE		GRAY SHALE	6.9	41.7
677.7	CARBONDALE	ANNA	DARK SHALE	0.9	48.6
676.8	CARBONDALE	HERRIN	COAL	2.5	49.5
674.3	CARBONDALE		UNDERCLAY	1.7	52.0
672.6	CARBONDALE		MICACEOUS SHALE	13.5	53.7
659.1	CARBONDALE		LIMESTONE	1.7	67.2
657.4	CARBONDALE		SHALE & SANDSTONE	23.9	68.9
633.5	CARBONDALE		DARK SHALE	13.7	92.8
619.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	106.5
619.4	CARBONDALE	TURNER MINE	DARK SHALE	1.2	106.9
618.2	CARBONDALE	TURNER MINE	BLACK SHALE	2.6	108.1
615.6	CARBONDALE	SPRINGFIELD	COAL	3.3	110.7
612.3	CARBONDALE		UNDERCLAY	2.0	114.0

MAPID: 05784149000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100959

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700553

DATE COLLECTED: 6 / 5 / 1975

SURFACE ELEVATION (FT.): 726.1 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22933

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.1	PLEISTOCENE		CLAY	42.5	0.0	IN SPOIL
683.6	PLEISTOCENE		CLAY & SHALE	3.5	42.5	& COAL
680.1	CARBONDALE		GRAY SHALE	14.0	46.0	
666.1	CARBONDALE		LIMESTONE	2.0	60.0	
664.1	CARBONDALE		SHALE & SANDSTONE	18.0	62.0	
646.1	CARBONDALE		DARK SHALE	31.5	80.0	
614.6	CARBONDALE	ST. DAVID	LIMESTONE	0.5	111.5	
614.1	CARBONDALE	TURNER MINE	DARK SHALE	2.0	112.0	
612.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	114.0	
611.1	CARBONDALE	SPRINGFIELD	CAVITY	4.0	115.0	
607.1	CARBONDALE		UNDERCLAY	1.0	119.0	

MAPID: 05784151000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103221

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700555

DATE COLLECTED: 6 / 6 / 1975

SURFACE ELEVATION (FT.): 727.3 LOGGED (FT.): 114.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22935

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.3	PLEISTOCENE		SOIL	1.0	0.0	
726.3	PLEISTOCENE		SANDY CLAY	20.5	1.0	
705.8	CARBONDALE		SANDSTONE	8.5	21.5	
697.3	CARBONDALE		SHALE & SANDSTONE	9.6	30.0	
687.7	CARBONDALE		GRAY SANDSTONE	13.6	39.6	
674.1	CARBONDALE		UNDERCLAY	1.8	53.2	NO COAL
672.3	CARBONDALE		LIMESTONE	3.0	55.0	
669.3	CARBONDALE		GRAY SANDSTONE	8.5	58.0	
660.8	CARBONDALE		LIMESTONE	3.0	66.5	
657.8	CARBONDALE		GRAY SHALE	6.5	69.5	
651.3	CARBONDALE		LIMESTONE	0.7	76.0	
650.6	CARBONDALE		GRAY SHALE	3.3	76.7	
647.3	CARBONDALE		GRAY SANDSTONE	12.5	80.0	
634.8	CARBONDALE		DARK SHALE	13.5	92.5	
621.3	CARBONDALE	ST. DAVID	LIMESTONE	0.4	106.0	
620.9	CARBONDALE	TURNER MINE	DARK SHALE	1.3	106.4	
619.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	107.7	
618.4	CARBONDALE	SPRINGFIELD	COAL	3.7	108.9	
614.7	CARBONDALE		UNDERCLAY	1.4	112.6	

MAPID: 05784152000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104319

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700594

DATE COLLECTED: 6 / 6 / 1975

SURFACE ELEVATION (FT.): 727.8 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22936

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.8	PLEISTOCENE		SOIL	24.5	0.0	
703.3	PLEISTOCENE		CLAY, SAND & GRAVEL	2.5	24.5	
700.8	CARBONDALE		GRAY SHALE	2.5	27.0	
698.3	CARBONDALE		SHALE & SANDSTONE	16.3	29.5	
682.0	CARBONDALE	HERRIN	COAL	3.0	45.8	
679.0	CARBONDALE		UNDERCLAY	1.2	48.8	

MAPID: 05784153000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109104

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700591

DATE COLLECTED: 6 / 9 / 1975

SURFACE ELEVATION (FT.): 725.3 LOGGED (FT.): 58.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22937

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
725.3	PLEISTOCENE		SOIL	23.0	0.0
702.3	CARBONDALE		SANDSTONE	25.8	23.0
676.5	CARBONDALE	HERRIN	SANDSTONE/COAL	1.0	48.8
675.5	CARBONDALE	HERRIN	COAL	3.0	49.8
672.5	CARBONDALE		UNDERCLAY	2.2	52.8
670.3	CARBONDALE		GRAY SHALE	3.0	55.0

MAPID: 05784154000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11023

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700445

DATE COLLECTED: 6 / 9 / 1975

SURFACE ELEVATION (FT.): 727.7 LOGGED (FT.): 116.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22938

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
727.7	PLEISTOCENE		SOIL	16.5	0.0
711.2	PLEISTOCENE		BOULDER	2.0	16.5
709.2	CARBONDALE		SANDSTONE	9.5	18.5
699.7	CARBONDALE		SANDSTONE/SHALE	19.8	28.0
679.9	CARBONDALE	HERRIN	COAL	2.2	47.8
677.7	CARBONDALE		UNDERCLAY	2.0	50.0
675.7	CARBONDALE		GRAY SHALE	2.5	52.0
673.2	CARBONDALE		LIMESTONE	4.0	54.5
669.2	CARBONDALE		GRAY SANDSTONE	9.5	58.5
659.7	CARBONDALE		LIMESTONE	0.4	68.0
659.3	CARBONDALE		GRAY SHALE	9.4	68.4
649.9	CARBONDALE		LIMESTONE	1.2	77.8
648.7	CARBONDALE		CALCAREOUS SHALE	21.0	79.0
627.7	CARBONDALE		DARK SHALE	7.2	100.0
620.5	CARBONDALE	ST. DAVID	LIMESTONE	0.3	107.2
620.2	CARBONDALE	TURNER MINE	DARK SHALE	1.3	107.5
618.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	108.8
617.7	CARBONDALE	SPRINGFIELD	COAL	3.6	110.0
614.1	CARBONDALE		UNDERCLAY	2.4	113.6

MAPID: 05784163000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101092 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.702086 DATE COLLECTED: 6 / 3 / 1975

SURFACE ELEVATION (FT.): 722.3 LOGGED (FT.): 115.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23167 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.3	PLEISTOCENE		SOIL	1.0	0.0	
721.3	PLEISTOCENE		CLAY	20.0	1.0	
701.3	CARBONDALE		BROWN SHALE	7.0	21.0	
694.3	CARBONDALE		GRAY SHALE	17.7	28.0	
676.6	CARBONDALE	HERRIN	COAL	2.3	45.7	
674.3	CARBONDALE	HERRIN	BLUE BAND	0.2	48.0	
674.1	CARBONDALE	HERRIN	COAL	1.6	48.2	
672.5	CARBONDALE		UNDERCLAY	1.8	49.8	
670.7	CARBONDALE		GRAY SHALE	4.4	51.6	
666.3	CARBONDALE		SANDSTONE	4.0	56.0	SOFT
662.3	CARBONDALE		GRAY SHALE	5.0	60.0	
657.3	CARBONDALE		LIMESTONE	0.8	65.0	
656.5	CARBONDALE		CALCAREOUS SHALE	10.2	65.8	
646.3	CARBONDALE		SANDSTONE	15.0	76.0	
631.3	CARBONDALE		DARK SHALE	15.5	91.0	
615.8	CARBONDALE	ST. DAVID	LIMESTONE	0.6	106.5	
615.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	107.1	
613.6	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	108.7	
612.9	CARBONDALE	SPRINGFIELD	COAL	3.4	109.4	
609.5	CARBONDALE		UNDERCLAY	2.2	112.8	

MAPID: 05784164000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105428

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.702144

DATE COLLECTED: 6 / 3 / 1975

SURFACE ELEVATION (FT.): 724.5 LOGGED (FT.): 116.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23168

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.5	PLEISTOCENE		SOIL	1.0	0.0	
723.5	PLEISTOCENE		CLAY	21.0	1.0	
702.5	CARBONDALE		SANDSTONE	10.0	22.0	SOFT
692.5	CARBONDALE		GRAY SHALE	16.0	32.0	SOFT
676.5	CARBONDALE	BRERETON	LIMESTONE	2.4	48.0	
674.1	CARBONDALE	HERRIN	CLAY & COAL	3.2	50.4	WHITE TOP
670.9	CARBONDALE		SANDSTONE	16.4	53.6	
654.5	CARBONDALE		GRAY SHALE	7.0	70.0	
647.5	CARBONDALE		CALCAREOUS SHALE	17.0	77.0	
630.5	CARBONDALE		DARK SHALE	13.8	94.0	
616.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	107.8	
616.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	108.2	
615.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	109.5	
614.3	CARBONDALE	SPRINGFIELD	COAL	3.4	110.2	
610.9	CARBONDALE		UNDERCLAY	2.4	113.6	

MAPID: 05784165000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103253

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.702161

DATE COLLECTED: 6 / 3 / 1975

SURFACE ELEVATION (FT.): 725.2 LOGGED (FT.): 117.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23169

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.2	PLEISTOCENE		SOIL	1.0	0.0	
724.2	PLEISTOCENE		CLAY	21.0	1.0	
703.2	CARBONDALE		BROWN SHALE	6.0	22.0	
697.2	CARBONDALE		GRAY SHALE	7.0	28.0	
690.2	CARBONDALE		SANDSTONE	11.6	35.0	SOFT
678.6	CARBONDALE	BRERETON	LIMESTONE	2.4	46.6	
676.2	CARBONDALE		CLAYSTONE	1.5	49.0	WHITE TOP
674.7	CARBONDALE	HERRIN	COAL	3.0	50.5	
671.7	CARBONDALE		UNDERCLAY	1.8	53.5	
669.9	CARBONDALE		GRAY SHALE	2.7	55.3	
667.2	CARBONDALE		SANDSTONE	7.0	58.0	SOFT
660.2	CARBONDALE		CALCAREOUS SHALE	28.0	65.0	
632.2	CARBONDALE		DARK SHALE	15.2	93.0	
617.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	108.2	
616.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	108.7	
614.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	110.7	
613.7	CARBONDALE	SPRINGFIELD	COAL	3.5	111.5	
610.2	CARBONDALE		UNDERCLAY	2.0	115.0	

MAPID: 0578416600C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104438

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.702179

DATE COLLECTED: 6 / 4 / 1975

SURFACE ELEVATION (FT.): 725.8 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23170

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
725.8	PLEISTOCENE		SOIL	1.0	0.0
724.8	PLEISTOCENE		CLAY	23.0	1.0
701.8	CARBONDALE		BROWN SHALE	5.0	24.0
696.8	CARBONDALE		SANDSTONE	19.0	29.0
677.8	CARBONDALE		LIMESTONE	1.2	48.0
676.6	CARBONDALE		DARK SHALE	4.3	49.2
672.3	CARBONDALE		LIMESTONE	1.3	53.5
671.0	CARBONDALE		SANDSTONE	14.2	54.8
656.8	CARBONDALE		CALCAREOUS SHALE	21.0	69.0
635.8	CARBONDALE		DARK SHALE	16.3	90.0
619.5	CARBONDALE	ST. DAVID	LIMESTONE	0.5	106.3
619.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	106.8
617.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	108.4
616.6	CARBONDALE	SPRINGFIELD	COAL	3.7	109.2
612.9	CARBONDALE		UNDERCLAY	2.1	112.9

MAPID: 05784167000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102009

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.702134

DATE COLLECTED: 6 / 4 / 1975

SURFACE ELEVATION (FT.): 724.7 LOGGED (FT.): 117.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23171

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.7	PLEISTOCENE		SOIL	1.0	0.0	
723.7	PLEISTOCENE		CLAY	23.0	1.0	
700.7	CARBONDALE		BROWN SHALE	7.0	24.0	SOFT
693.7	CARBONDALE		SANDSTONE	2.0	31.0	
691.7	CARBONDALE		GRAY SHALE	13.0	33.0	
678.7	CARBONDALE	BRERETON	LIMESTONE	1.5	46.0	
677.2	CARBONDALE		CLAYSTONE	1.9	47.5	WHITE TOP
675.3	CARBONDALE	HERRIN	COAL	0.6	49.4	
674.7	CARBONDALE	HERRIN	BLUE BAND	0.2	50.0	
674.5	CARBONDALE	HERRIN	COAL	1.1	50.2	
673.4	CARBONDALE		UNDERCLAY	1.7	51.3	
671.7	CARBONDALE		SANDSTONE	17.0	53.0	
654.7	CARBONDALE		CALCAREOUS SHALE	8.0	70.0	
646.7	CARBONDALE		SANDSTONE	17.0	78.0	
629.7	CARBONDALE		DARK SHALE	13.6	95.0	
616.1	CARBONDALE	ST. DAVID	LIMESTONE	0.5	108.6	
615.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	109.1	
614.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	110.5	
613.4	CARBONDALE	SPRINGFIELD	COAL	3.5	111.3	
609.9	CARBONDALE		UNDERCLAY	2.2	114.8	

MAPID: 05785813000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117301

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.71124

DATE COLLECTED: 12 / 30 / 1951

SURFACE ELEVATION (FT.): 699.7 LOGGED (FT.): 83.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 5744

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
699.7	PLEISTOCENE		SOIL	1.0	0.0	
698.7	PLEISTOCENE		CLAY	15.7	1.0	
683.0	CARBONDALE	HERRIN	COAL	1.9	16.7	SOFT TOP ERODED
681.1	CARBONDALE		GRAY SHALE	3.7	18.6	
677.4	CARBONDALE		GRAY SANDSTONE	4.6	22.3	
672.8	CARBONDALE		GRAY SHALE	30.9	26.9	
641.9	CARBONDALE		GRAY SANDSTONE	3.2	57.8	
638.7	CARBONDALE		DARK SHALE	14.9	61.0	
623.8	CARBONDALE	ST. DAVID	LIMESTONE	0.3	75.9	
623.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	76.2	
621.7	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.0	78.0	
617.7	CARBONDALE		UNDERCLAY	1.0	82.0	

MAPID: 0578635000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11152 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.701616 DATE COLLECTED: 4 / 7 / 1975

SURFACE ELEVATION (FT.): 725.4 LOGGED (FT.): 121.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22739 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.4	PLEISTOCENE		SOIL	1.0	0.0	
724.4	PLEISTOCENE		CLAY	23.0	1.0	
701.4			SANDSTONE	5.0	24.0	
696.4			GRAY SHALE	2.0	29.0	
694.4			SANDSTONE	20.0	31.0	
674.4	CARBONDALE		LIMESTONE	2.0	51.0	
672.4	CARBONDALE		GRAY SHALE	3.0	53.0	
669.4	CARBONDALE		SANDSTONE	14.0	56.0	SOFT
655.4	CARBONDALE		CALCAREOUS SHALE	26.0	70.0	
629.4	CARBONDALE		DARK SHALE	15.0	96.0	
614.4	CARBONDALE	ST. DAVID	LIMESTONE	0.4	111.0	
614.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.2	111.4	
611.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	113.6	
611.0	CARBONDALE	SPRINGFIELD	COAL	3.9	114.4	
607.1	CARBONDALE		UNDERCLAY	2.7	118.3	

MAPID: 05786376000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10777 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.70144 DATE COLLECTED: 4 / 12 / 1989

SURFACE ELEVATION (FT.): 725.5 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29373 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.5	PLEISTOCENE		SOIL	2.5	0.0	
723.0	PLEISTOCENE		CLAY	12.5	2.5	YELLOW
710.5	PLEISTOCENE		CLAY	8.5	15.0	GRAY
702.0	CARBONDALE		SANDSTONE	6.8	23.5	SOFT
695.2	CARBONDALE		GRAY SHALE	3.2	30.3	
692.0	CARBONDALE		SANDSTONE	15.0	33.5	
677.0	CARBONDALE		DARK SHALE	3.3	48.5	
673.7	CARBONDALE		GRAY SHALE	8.2	51.8	

MAPID: 05786377000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105388

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.701383

DATE COLLECTED: 4 / 12 / 1989

SURFACE ELEVATION (FT.): 726.8 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29374

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.8	PLEISTOCENE		SOIL	2.5	0.0	
724.3	PLEISTOCENE		CLAY	20.5	2.5	
703.8	MODESTO		SANDSTONE	4.5	23.0	SOFT
699.3	MODESTO		SHALE & SANDSTONE	4.2	27.5	SOFT
695.1	MODESTO		SANDSTONE	19.8	31.7	
675.3	CARBONDALE	ANNA	DARK SHALE	0.5	51.5	
674.8	CARBONDALE	HERRIN	COAL	1.5	52.0	
673.3	CARBONDALE		UNDERCLAY	1.5	53.5	

MAPID: 05786378000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103035

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.70132

DATE COLLECTED: 4 / 12 / 1989

SURFACE ELEVATION (FT.): 726.9 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29375

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.9	PLEISTOCENE		SOIL	2.5	0.0	
724.4	PLEISTOCENE		CLAY	14.0	2.5	
710.4	SHELBURN		SANDSTONE	5.5	16.5	SOFT
704.9	SHELBURN		GRAY SHALE	8.2	22.0	
696.7	SHELBURN		SANDSTONE	21.0	30.2	
675.7	SHELBURN		GRAY SHALE	2.1	51.2	
673.7	CARBONDALE		UNDERCLAY	1.7	53.2	NO COAL
671.9	CARBONDALE		GRAY SHALE	5.0	55.0	

MAPID: 05786379000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112415

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700271

DATE COLLECTED: 4 / 12 / 1989

SURFACE ELEVATION (FT.): 726.7 LOGGED (FT.): 52.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29376

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.7	PLEISTOCENE		SOIL	2.0	0.0	
724.7	PLEISTOCENE		CLAY	19.5	2.0	
705.2	SHELBURN		SANDSTONE	3.7	21.5	SOFT
701.5	SHELBURN		SANDSTONE	11.8	25.2	
689.7	SHELBURN		GRAY SHALE	8.8	37.0	
680.9	SHELBURN	BRERETON	LIMESTONE	1.1	45.8	
679.8	SHELBURN		GRAY SHALE	0.3	46.9	
679.5	CARBONDALE	ANNA	BLACK SHALE	0.5	47.2	
679.0	CARBONDALE	HERRIN	COAL	2.0	47.7	
677.0	CARBONDALE		UNDERCLAY	2.3	49.7	

MAPID: 05786380000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.114641

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.69994

DATE COLLECTED: 4 / 12 / 1989

SURFACE ELEVATION (FT.): 723.0 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29377

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.0	PLEISTOCENE		SOIL	2.0	0.0	
721.0	PLEISTOCENE		CLAY	20.0	2.0	
701.0	SHELBURN		SANDSTONE	3.0	22.0	SOFT
698.0	SHELBURN		GRAY SHALE	9.8	25.0	
688.2	SHELBURN	BRERETON	LIMESTONE	2.7	34.8	
685.5	SHELBURN		GRAY SHALE	0.7	37.5	
684.8	CARBONDALE	ANNA	BLACK SHALE	0.4	38.2	
684.4	CARBONDALE	HERRIN	COAL	0.5	38.6	
683.9	CARBONDALE		SHALE/UNDERCLAY	5.9	39.1	

MAPID: 05791740000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110264

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705888

DATE COLLECTED: 7 / 10 / 1975

SURFACE ELEVATION (FT.): 721.4 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22979

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIGITIZED FROM CO MAP 1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.4	PLEISTOCENE			23.0	0.0	
698.4	CARBONDALE		SANDSTONE/SHALE	13.4	23.0	
685.0	CARBONDALE		GRAY SHALE	6.3	36.4	
678.7	CARBONDALE		CLAYSTONE	1.0	42.7	WHITE TOP
677.7	CARBONDALE	HERRIN	COAL	2.8	43.7	
674.9	CARBONDALE		UNDERCLAY	2.4	46.5	
672.5	CARBONDALE		LIMESTONE	2.1	48.9	
670.4	CARBONDALE		SANDSTONE	5.9	51.0	
664.5	CARBONDALE		GRAY SHALE	1.9	56.9	
662.6	CARBONDALE		SANDSTONE	26.2	58.8	
636.4	CARBONDALE		DARK SHALE	13.5	85.0	
622.9	CARBONDALE	ST. DAVID	LIMESTONE	1.5	98.5	
621.4	CARBONDALE	TURNER MINE	DARK SHALE	2.3	100.0	
619.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	102.3	
617.6	CARBONDALE	SPRINGFIELD	COAL	3.6	103.8	
614.0	CARBONDALE		UNDERCLAY	1.6	107.4	
612.4	CARBONDALE		GRAY SHALE	1.0	109.0	

MAPID: 05791742000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110264

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705888

DATE COLLECTED: 5 / 21 / 1975

SURFACE ELEVATION (FT.): 720.0 LOGGED (FT.): 191.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23157

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIGITIZED FROM CO MAP 1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.0	PLEISTOCENE		SOIL	1.0	0.0	
719.0	PLEISTOCENE		CLAY	18.0	1.0	YEL
701.0	PLEISTOCENE		CLAY	5.0	19.0	GRAY
696.0	CARBONDALE		SANDY SHALE	4.0	24.0	BROWN
692.0	CARBONDALE		GRAY SHALE	2.0	28.0	
690.0	CARBONDALE		SANDSTONE	11.0	30.0	SOFT
679.0	CARBONDALE		GRAY SHALE	9.1	41.0	
669.9	CARBONDALE	HERRIN	COAL	1.6	50.1	
668.3	CARBONDALE		BLUE BAND	0.2	51.7	
668.1	CARBONDALE	HERRIN	COAL	1.5	51.9	
666.6	CARBONDALE		UNDERCLAY	1.8	53.4	
664.8	CARBONDALE		GRAY SHALE	5.8	55.2	
659.0	CARBONDALE		SANDSTONE	10.0	61.0	SOFT
649.0	CARBONDALE		GRAY SHALE	4.0	71.0	
645.0	CARBONDALE		LIMESTONE	0.6	75.0	
644.4	CARBONDALE		GRAY SHALE & LIMESTONE	37.4	75.6	
607.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	113.0	
606.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	113.5	
604.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	115.2	
604.0	CARBONDALE	SPRINGFIELD	COAL	4.0	116.0	
600.0	CARBONDALE		UNDERCLAY	1.5	120.0	
598.5	CARBONDALE		LIMESTONE	1.2	121.5	
597.3	CARBONDALE		GRAY SHALE	3.3	122.7	
594.0	CARBONDALE		LIMESTONE	1.2	126.0	
592.8	CARBONDALE		GRAY SHALE & LIMESTONE	14.8	127.2	
578.0	CARBONDALE	COLCHESTER	COAL	1.1	142.0	
576.9	CARBONDALE		UNDERCLAY	1.5	143.1	
575.4	CARBONDALE		SANDY SHALE	11.4	144.6	
564.0	CARBONDALE		SANDSTONE	11.0	156.0	SOFT
553.0	CARBONDALE		SHALE WITH LIMESTONE	24.0	167.0	

MAPID: 05791743000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110264

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705888

DATE COLLECTED: 5 / 22 / 1975

SURFACE ELEVATION (FT.): 718.8 LOGGED (FT.): 201.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23158

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIGITIZED FROM CO MAP 1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.8	PLEISTOCENE		SOIL	1.0	0.0	
717.8	PLEISTOCENE		CLAY	20.0	1.0	
697.8	CARBONDALE			5.0	21.0	
692.8	CARBONDALE		GRAY SANDSTONE	10.0	26.0	
682.8	CARBONDALE		GRAY SHALE	8.0	36.0	
674.8	CARBONDALE	BRERETON	LIMESTONE	3.2	44.0	
671.6	CARBONDALE		CLAYSTONE	2.7	47.2	WHITE TOP
668.9	CARBONDALE	HERRIN	COAL	1.5	49.9	
667.4	CARBONDALE	HERRIN	BLUE BAND	0.2	51.4	
667.2	CARBONDALE	HERRIN	COAL	1.5	51.6	
665.7	CARBONDALE		UNDERCLAY	1.9	53.1	
663.8	CARBONDALE		GRAY SHALE	6.0	55.0	
657.8	CARBONDALE		SANDSTONE	30.0	61.0	
627.8	CARBONDALE		SANDY SHALE	20.1	91.0	
607.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	111.1	
607.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	111.5	
605.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	113.3	
604.8	CARBONDALE	SPRINGFIELD	COAL	3.7	114.0	
601.1	CARBONDALE		UNDERCLAY	1.8	117.7	
599.3	CARBONDALE		SANDY SHALE	16.5	119.5	
582.8	CARBONDALE		SHALE WITH LIMESTONE	21.0	136.0	
561.8	CARBONDALE		SANDSTONE	19.0	157.0	
542.8	CARBONDALE		DARK SHALE	25.0	176.0	

MAPID: 05791744000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110264

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705888

DATE COLLECTED: 5 / 23 / 1975

SURFACE ELEVATION (FT.): 722.5 LOGGED (FT.): 201.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23159

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIGITIZED FROM CO MAP 1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.5	PLEISTOCENE		SOIL	1.0	0.0	
721.5	PLEISTOCENE		CLAY	18.0	1.0	
703.5	CARBONDALE			3.0	19.0	
700.5	CARBONDALE		GRAY SANDSTONE	18.0	22.0	
682.5	CARBONDALE		GRAY SHALE	6.0	40.0	
676.5	CARBONDALE	BRERETON	LIMESTONE	0.4	46.0	
676.1	CARBONDALE		CLAYSTONE	1.4	46.4	WHITE TOP
674.7	CARBONDALE	HERRIN	COAL	1.3	47.8	
673.4	CARBONDALE	HERRIN	BLUE BAND	0.2	49.1	
673.2	CARBONDALE	HERRIN	COAL	1.5	49.3	
671.7	CARBONDALE		UNDERCLAY	1.8	50.8	
669.9	CARBONDALE		GRAY SHALE	2.4	52.6	
667.5	CARBONDALE		SANDSTONE	14.0	55.0	
653.5	CARBONDALE		LIMESTONE	1.2	69.0	
652.3	CARBONDALE		SANDSTONE	3.8	70.2	
648.5	CARBONDALE		SHALE WITH LIMESTONE	34.8	74.0	
613.7	CARBONDALE	ST. DAVID	LIMESTONE	0.3	108.8	
613.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	109.1	
611.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	111.4	
610.3	CARBONDALE	SPRINGFIELD	COAL	3.5	112.2	
606.8	CARBONDALE		UNDERCLAY	1.8	115.7	
605.0	CARBONDALE		GRAY SHALE	3.0	117.5	
602.0	CARBONDALE		LIMESTONE	1.7	120.5	
600.3	CARBONDALE		GRAY SHALE	13.8	122.2	
586.5	CARBONDALE		SANDSTONE	2.0	136.0	
584.5	CARBONDALE		GRAY SHALE	13.0	138.0	
571.5	CARBONDALE		SANDY SHALE	30.0	151.0	
541.5	CARBONDALE		SHALE WITH LIMESTONE	20.0	181.0	

MAPID: 05791745000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110264

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705888

DATE COLLECTED: 5 / 23 / 1975

SURFACE ELEVATION (FT.): 721.9 LOGGED (FT.): 201.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23160

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIGITIZED FROM CO MAP 1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.9	PLEISTOCENE		SOIL	1.0	0.0	
720.9	PLEISTOCENE		CLAY	20.0	1.0	
700.9	CARBONDALE		SANDSTONE	2.0	21.0	HARD
698.9	CARBONDALE		SANDSTONE	20.0	23.0	SOFT
678.9	CARBONDALE		GRAY SHALE	2.0	43.0	
676.9	CARBONDALE	HERRIN	COAL	2.1	45.0	
674.8	CARBONDALE	HERRIN	BLUE BAND	0.2	47.1	
674.6	CARBONDALE	HERRIN	COAL	1.2	47.3	
673.4	CARBONDALE		UNDERCLAY	1.5	48.5	
671.9	CARBONDALE		GRAY SHALE	4.0	50.0	
667.9	CARBONDALE		SANDSTONE	12.0	54.0	
655.9	CARBONDALE		LIMESTONE	1.2	66.0	
654.7	CARBONDALE		SANDY SHALE	8.8	67.2	
645.9	CARBONDALE		SHALE WITH LIMESTONE	29.0	76.0	
616.9	CARBONDALE	ST. DAVID	LIMESTONE	0.5	105.0	
616.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	105.5	
615.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	106.7	
614.5	CARBONDALE	SPRINGFIELD	COAL	3.6	107.4	
610.9	CARBONDALE		UNDERCLAY	1.7	111.0	
609.2	CARBONDALE		SHALE WITH LIMESTONE	23.3	112.7	
585.9	CARBONDALE		SANDSTONE	10.0	136.0	SOFT
575.9	CARBONDALE		LIMESTONE	1.3	146.0	
574.6	CARBONDALE		SANDSTONE	8.7	147.3	SOFT
565.9	CARBONDALE		DARK SHALE	32.5	156.0	
533.4	CARBONDALE		LIMESTONE	0.5	188.5	
532.9	CARBONDALE		SHALE WITH LIMESTONE	12.0	189.0	

MAPID: 05791747000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110264

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705888

DATE COLLECTED: 7 / 10 / 1975

SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 113.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23243

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIGITIZED FROM CO MAP 1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
722.0	PLEISTOCENE		CLAY	23.0	0.0
699.0	CARBONDALE		SHALE & SANDSTONE	19.8	23.0
679.2	CARBONDALE	ANNA	BLACK SHALE	0.8	42.8
678.4	CARBONDALE	HERRIN	COAL	2.4	43.6
676.0	CARBONDALE	HERRIN	BLUE BAND	0.2	46.0
675.8	CARBONDALE	HERRIN	COAL	1.8	46.2
674.0	CARBONDALE		UNDERCLAY	1.7	48.0
672.3	CARBONDALE		SHALE & SANDSTONE	35.3	49.7
637.0	CARBONDALE		DARK SHALE	19.0	85.0
618.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	104.0
617.6	CARBONDALE	TURNER MINE	DARK SHALE	1.6	104.4
616.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	106.0
614.7	CARBONDALE	SPRINGFIELD	COAL	3.8	107.3
610.9	CARBONDALE		UNDERCLAY	1.9	111.1

MAPID: 05791748000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110264

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705888

DATE COLLECTED: 7 / 10 / 1975

SURFACE ELEVATION (FT.): 725.4 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23244

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIGITIZED FROM CO MAP 1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
725.4	PLEISTOCENE		CLAY	26.8	0.0
698.6	CARBONDALE		GRAY SHALE	19.2	26.8
679.4	CARBONDALE		DARK SHALE	1.0	46.0
678.4	CARBONDALE	ANNA	BLACK SHALE	1.0	47.0
677.4	CARBONDALE	HERRIN	COAL	4.1	48.0
673.3	CARBONDALE		UNDERCLAY	1.6	52.1
671.7	CARBONDALE		SHALE & SANDSTONE	40.2	53.7
631.5	CARBONDALE		DARK SHALE	17.6	93.9
613.9	CARBONDALE	ST. DAVID	LIMESTONE	0.4	111.5
613.5	CARBONDALE	TURNER MINE	DARK SHALE	1.6	111.9
611.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	113.5
610.5	CARBONDALE	SPRINGFIELD	COAL	3.9	114.9
606.6	CARBONDALE		UNDERCLAY	1.2	118.8

MAPID: 05791751000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110264

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705888

DATE COLLECTED: 7 / 21 / 1976

SURFACE ELEVATION (FT.): 712.4 LOGGED (FT.): 125.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25775

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIGITIZED FROM CO MAP 1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
712.4	PLEISTOCENE		UNCONSOLIDATED	38.0	0.0
674.4	CARBONDALE		MICACEOUS SHALE	3.5	38.0
670.9	CARBONDALE		SANDSTONE	7.5	41.5
663.4	CARBONDALE		SHALE & SANDSTONE	26.0	49.0
637.4	CARBONDALE		DARK SHALE	16.3	75.0
621.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	91.3
620.7	CARBONDALE	TURNER MINE	DARK SHALE	2.6	91.7
618.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	94.3
616.7	CARBONDALE	SPRINGFIELD	COAL	3.2	95.7
613.5	CARBONDALE		UNDERCLAY	2.1	98.9

MAPID: 05791752000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110264

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705888

DATE COLLECTED: 7 / 21 / 1976

SURFACE ELEVATION (FT.): 705.0 LOGGED (FT.): 94.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25777

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIGITIZED FROM CO MAP 1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.0	PLEISTOCENE		UNCONSOLIDATED	28.5	0.0	
676.5	CARBONDALE		MICACEOUS SHALE	2.7	28.5	
673.8	CARBONDALE		SANDSTONE	9.2	31.2	
664.6	CARBONDALE		SHALE & SANDSTONE	28.1	40.4	
636.5	CARBONDALE		DARK SHALE	15.9	68.5	
620.6	CARBONDALE	ST. DAVID	LIMESTONE	0.5	84.4	
620.1	CARBONDALE	TURNER MINE	DARK SHALE	1.8	84.9	
618.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	86.7	
617.0	CARBONDALE	SPRINGFIELD	COAL	3.8	88.0	
613.2	CARBONDALE		UNDERCLAY	2.2	91.8	

MAPID: 05700703000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES: 789' S line, 223' E line of NE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12046

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.708172

DATE COLLECTED: 9 / 0 / 1933

SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 2777.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND ELECTRIC COAL CO.

WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.0			UNCONSOLIDATED	35.0	0.0	
665.0	CARBONDALE		SHALE	35.0	35.0	GY,SDY
630.0	CARBONDALE	ST. DAVID	SANDY LIMESTONE	2.0	70.0	
628.0	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	72.0	FISSILE
625.0	CARBONDALE	SPRINGFIELD	COAL	3.0	75.0	
622.0	CARBONDALE		UNDERCLAY	7.0	78.0	
615.0	CARBONDALE		LIMESTONE	6.0	85.0	
609.0	CARBONDALE		SHALE	149.0	91.0	GY,SDY
460.0	CARBONDALE	COLCHESTER	COAL	2.0	240.0	BASE OF CARBONDALE
458.0	SPOON		BLACK SHALE	20.0	242.0	FISSILE
438.0	SPOON		SHALE	14.0	262.0	BS PENNSYLVANIAN; DK GY; SDY
424.0			ROCK	2501.0	276.0	MISSISSIPPIAN AND OLDER

MAPID: 05700703000C VERSION: 2

PROJECT: NCRDS87

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES: 789' S line, 223' E line of NE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12046 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 40.708172 DATE COLLECTED: 9 / 0 / 1933

SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 295.0 LOG TYPE: Survey Sample Study

SOURCE: MIDLAND ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.0			UNCONSOLIDATED	35.0	0.0	
665.0	CARBONDALE		SHALE	35.0	35.0	
630.0	CARBONDALE		LIMESTONE	2.0	70.0	
628.0	CARBONDALE		BLACK SHALE	3.0	72.0	
625.0	CARBONDALE		COAL	3.0	75.0	
622.0	CARBONDALE		UNDERCLAY	7.0	78.0	
615.0	CARBONDALE		LIMESTONE	6.0	85.0	
609.0	CARBONDALE		UNCLASSIFIED	149.0	91.0	
460.0	CARBONDALE	COLCHESTER	COAL	2.0	240.0	
458.0			UNCLASSIFIED	20.0	242.0	
438.0			SHALE	14.0	262.0	
424.0			LIMESTONE	5.0	276.0	
419.0			UNCLASSIFIED	14.0	281.0	
405.0			UNCLASSIFIED	0.0	295.0	TOP OF MISS.

MAPID: 05760036000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES: 15' S line, 15' E line of NE SE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119793 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.702437 DATE COLLECTED: 12 / 11 / 1928

SURFACE ELEVATION (FT.): 710.0 LOGGED (FT.): 26.8 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.8	CARBONDALE	HERRIN	COAL	1.6	25.2	

MAPID: 05760045000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES: 15' S line, 15' W line of SW SE SE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.124505 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.698815 DATE COLLECTED: 12 / 11 / 1928

SURFACE ELEVATION (FT.): 710.0 LOGGED (FT.): 21.6 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
691.0	CARBONDALE	HERRIN	COAL	2.6	19.0

MAPID: 05770555000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 1 / 27 / 1959

SURFACE ELEVATION (FT.): 687.8 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6530 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
687.8	PLEISTOCENE		SOIL	1.0	0.0
686.8	PLEISTOCENE			18.7	1.0
668.1	PLEISTOCENE		SAND & GRAVEL	2.1	19.7
666.0	PLEISTOCENE		CLAY	0.6	21.8
665.4	CARBONDALE		SANDSTONE	5.2	22.4
660.2	CARBONDALE		LIMESTONE	0.2	27.6
660.0	CARBONDALE		GRAY SHALE	6.9	27.8
653.1	CARBONDALE		LIMESTONE	0.4	34.7
652.7	CARBONDALE		GRAY SHALE	2.4	35.1
650.3	CARBONDALE		LIMESTONE	0.6	37.5
649.7	CARBONDALE		SHALE	0.6	38.1
649.1	CARBONDALE		LIMESTONE	0.4	38.7
648.7	CARBONDALE		GRAY SHALE	20.0	39.1
628.7	CARBONDALE	ST. DAVID	LIMESTONE	0.5	59.1
628.2	CARBONDALE	TURNER MINE	DARK SHALE	1.4	59.6
626.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	61.0
625.3	CARBONDALE	SPRINGFIELD		3.7	62.5
621.6	CARBONDALE		UNDERCLAY	1.8	66.2

MAPID: 05770556000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 1 / 28 / 1959

SURFACE ELEVATION (FT.): 693.2 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6531 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
693.2	PLEISTOCENE		SOIL	1.0	0.0
692.2	PLEISTOCENE		CLAY	18.8	1.0
673.4	PLEISTOCENE		CLAY, SAND & GRAVEL	8.4	19.8
665.0	CARBONDALE		GRAY SHALE	12.7	28.2
652.3	CARBONDALE		LIMESTONE	0.3	40.9
652.0	CARBONDALE		SHALE & SANDSTONE	8.6	41.2
643.4	CARBONDALE		GRAY SHALE	12.7	49.8
630.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	62.5
630.3	CARBONDALE	TURNER MINE	DARK SHALE	1.0	62.9
629.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	63.9
627.5	CARBONDALE	SPRINGFIELD		3.7	65.7
623.8	CARBONDALE		UNDERCLAY	0.6	69.4

MAPID: 05785811000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122649 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708828 DATE COLLECTED: 12 / 21 / 1951

SURFACE ELEVATION (FT.): 702.7 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 5736 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
702.7	PLEISTOCENE		SOIL	1.0	0.0
701.7	PLEISTOCENE		CLAY	18.8	1.0
682.9	PLEISTOCENE		SANDY CLAY	16.1	19.8
666.8	CARBONDALE		GRAY SHALE	13.8	35.9
653.0	CARBONDALE		GRAY SANDSTONE	0.9	49.7
652.1	CARBONDALE		DARK SHALE	21.8	50.6
630.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	72.4
628.3	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.8	74.4
624.5	CARBONDALE		UNDERCLAY	1.8	78.2

MAPID: 05785812000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119696

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709103

DATE COLLECTED: 12 / 22 / 1951

SURFACE ELEVATION (FT.): 703.2 LOGGED (FT.): 80.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 5737

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
703.2	PLEISTOCENE		CLAY	27.8	0.0
675.4	PLEISTOCENE		SANDY CLAY	6.1	27.8
669.3	CARBONDALE		GRAY SHALE	16.9	33.9
652.4	CARBONDALE		GRAY SANDSTONE	7.1	50.8
645.3	CARBONDALE		DARK SHALE	15.5	57.9
629.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	73.4
629.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	73.9
627.9	CARBONDALE	SPRINGFIELD	COAL	3.9	75.3
624.0	CARBONDALE		UNDERCLAY	1.0	79.2

MAPID: 05785814000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12142

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709701

DATE COLLECTED: 8 / 11 / 1958

SURFACE ELEVATION (FT.): 703.6 LOGGED (FT.): 81.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 6459

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
703.6	PLEISTOCENE		SOIL	1.0	0.0
702.6	PLEISTOCENE		CLAY	19.5	1.0
683.1	CARBONDALE		GRAY SHALE	7.0	20.5
676.1	CARBONDALE		SANDSTONE	1.6	27.5
674.5	CARBONDALE		GRAY SHALE	2.2	29.1
672.3	CARBONDALE		LIMESTONE	0.5	31.3
671.8	CARBONDALE		SANDY SHALE	5.5	31.8
666.3	CARBONDALE		LIMESTONE	1.0	37.3
665.3	CARBONDALE		SANDY SHALE	12.8	38.3
652.5	CARBONDALE		GRAY SHALE	22.0	51.1
630.5	CARBONDALE	TURNER MINE	DARK SHALE	1.8	73.1
628.7	CARBONDALE	TURNER MINE	DARK SHALE	2.2	74.9
626.5	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.4	77.1
623.1	CARBONDALE		UNDERCLAY	1.0	80.5

MAPID: 05785815000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121493

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.710564

DATE COLLECTED: 8 / 12 / 1958

SURFACE ELEVATION (FT.): 698.1 LOGGED (FT.): 73.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 6460

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.1	PLEISTOCENE		SOIL	1.0	0.0	
697.1	PLEISTOCENE		CLAY	13.9	1.0	YELLOW
683.2	PLEISTOCENE		CLAY	6.2	14.9	GRAY
677.0	CARBONDALE		SANDSTONE	0.5	21.1	
676.5	CARBONDALE		SHALE	7.8	21.6	
668.7	CARBONDALE		LIMESTONE	0.9	29.4	
667.8	CARBONDALE		GRAY SHALE	30.8	30.3	
637.0	CARBONDALE		GRAY SHALE	4.7	61.1	
632.3	CARBONDALE	TURNER MINE	DARK SHALE	1.1	65.8	
631.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	66.9	
629.5	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.6	68.6	
625.9	CARBONDALE		UNDERCLAY	1.0	72.2	

MAPID: 05785816000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123549

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.710628

DATE COLLECTED: 8 / 12 / 1958

SURFACE ELEVATION (FT.): 700.3 LOGGED (FT.): 72.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 6461

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.3	PLEISTOCENE		SOIL	1.0	0.0	
699.3	PLEISTOCENE		CLAY	15.6	1.0	
683.7	CARBONDALE		GRAY SANDSTONE	8.0	16.6	SOFT
675.7	CARBONDALE		GRAY SHALE	3.4	24.6	
672.3	CARBONDALE		LIMESTONE	1.3	28.0	
671.0	CARBONDALE		GRAY SHALE	8.2	29.3	
662.8	CARBONDALE		LIMESTONE	0.2	37.5	
662.6	CARBONDALE		GRAY SHALE	0.8	37.7	
661.8	CARBONDALE		LIMESTONE	0.9	38.5	
660.9	CARBONDALE		GRAY SHALE	2.4	39.4	
658.5	CARBONDALE		LIMESTONE	0.7	41.8	
657.8	CARBONDALE		GRAY SANDSTONE	22.7	42.5	
635.1	CARBONDALE	ST. DAVID	LIMESTONE	0.2	65.2	
634.9	CARBONDALE	TURNER MINE	BLACK SHALE	2.4	65.4	
632.5	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.5	67.8	
629.0	CARBONDALE		UNDERCLAY	0.7	71.3	

MAPID: 05785817000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.125509 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.710792 DATE COLLECTED: 8 / 14 / 1958

SURFACE ELEVATION (FT.): 693.7 LOGGED (FT.): 66.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 6462 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.7	PLEISTOCENE		CLAY	13.8	0.0	
679.9	CARBONDALE		SANDSTONE	5.6	13.8	SOFT
674.3	CARBONDALE		SANDY SHALE	2.3	19.4	
672.0	CARBONDALE		GRAY SHALE	9.2	21.7	
662.8	CARBONDALE		LIMESTONE	0.3	30.9	
662.5	CARBONDALE		GRAY SHALE	4.3	31.2	
658.2	CARBONDALE		LIMESTONE	1.0	35.5	
657.2	CARBONDALE		GRAY SHALE	5.4	36.5	
651.8	CARBONDALE		SANDSTONE	16.8	41.9	
635.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	58.7	
634.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	59.1	
632.1	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.6	61.6	
628.5	CARBONDALE		UNDERCLAY	0.8	65.2	

MAPID: 05785818000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121287

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711429

DATE COLLECTED: 8 / 14 / 1958

SURFACE ELEVATION (FT.): 692.9 LOGGED (FT.): 70.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 6463

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
692.9	PLEISTOCENE		SOIL	1.0	0.0
691.9	PLEISTOCENE		CLAY	15.5	1.0
676.4	CARBONDALE		SANDY SHALE	6.4	16.5
670.0	CARBONDALE		GRAY SHALE	1.4	22.9
668.6	CARBONDALE		LIMESTONE	0.5	24.3
668.1	CARBONDALE		GRAY SHALE	8.8	24.8
659.3	CARBONDALE		LIMESTONE	0.4	33.6
658.9	CARBONDALE		SANDY SHALE	9.1	34.0
649.8	CARBONDALE		GRAY SANDSTONE	16.3	43.1
633.5	CARBONDALE		GRAY SHALE	3.7	59.4
629.8	CARBONDALE	ST. DAVID	LIMESTONE	0.3	63.1
629.5	CARBONDALE	TURNER MINE	SHALE	2.7	63.4
626.8	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.8	66.1
623.0	CARBONDALE		UNDERCLAY	1.0	69.9

MAPID: 05785819000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121349

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712295

DATE COLLECTED: 8 / 16 / 1958

SURFACE ELEVATION (FT.): 693.8 LOGGED (FT.): 73.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 6464

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.8	PLEISTOCENE		SOIL	1.0	0.0	
692.8	PLEISTOCENE		CLAY	16.4	1.0	
676.4	CARBONDALE		SANDSTONE	6.6	17.4	SOFT
669.8	CARBONDALE		SANDY SHALE	5.4	24.0	
664.4	CARBONDALE		GRAY SHALE	9.2	29.4	
655.2	CARBONDALE		LIMESTONE	0.3	38.6	
654.9	CARBONDALE		GRAY SHALE	2.1	38.9	
652.8	CARBONDALE		GRAY SANDSTONE	24.0	41.0	
628.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	65.0	
628.4	CARBONDALE	TURNER MINE	DARK SHALE	1.3	65.4	
627.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	66.7	
626.5	CARBONDALE	SPRINGFIELD	UNCLASSIFIED	1.0	67.3	COAL BALL
625.5	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.7	68.3	
621.8	CARBONDALE		UNDERCLAY	1.0	72.0	

MAPID: 05785820000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12353 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709674 DATE COLLECTED: 10 / 21 / 1958

SURFACE ELEVATION (FT.): 705.2 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 6497 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
705.2	PLEISTOCENE		CLAY	23.2	0.0
682.0	CARBONDALE		GRAY SHALE	3.2	23.2
678.8	CARBONDALE		SANDSTONE	3.6	26.4
675.2	CARBONDALE		GRAY SHALE	6.1	30.0
669.1	CARBONDALE		LIMESTONE	0.2	36.1
668.9	CARBONDALE		SHALE	0.5	36.3
668.4	CARBONDALE		LIMESTONE	0.3	36.8
668.1	CARBONDALE		SHALE & SANDSTONE	34.9	37.1
633.2	CARBONDALE	ST. DAVID	LIMESTONE	0.5	72.0
632.7	CARBONDALE	TURNER MINE	DARK SHALE	1.0	72.5
631.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	73.5
629.9	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.5	75.3
626.4	CARBONDALE		UNDERCLAY	1.2	78.8

MAPID: 05785821000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.125231 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709701 DATE COLLECTED: 10 / 22 / 1958

SURFACE ELEVATION (FT.): 705.3 LOGGED (FT.): 79.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 6498 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
705.3	PLEISTOCENE		SOIL	1.0	0.0
704.3	PLEISTOCENE		CLAY	21.6	1.0
682.7	CARBONDALE		SANDY SHALE	5.8	22.6
676.9	CARBONDALE		GRAY SHALE	6.5	28.4
670.4	CARBONDALE		LIMESTONE	0.5	34.9
669.9	CARBONDALE		GRAY SHALE	12.9	35.4
657.0	CARBONDALE		LIMESTONE	0.6	48.3
656.4	CARBONDALE		SHALE & SANDSTONE	22.3	48.9
634.1	CARBONDALE	ST. DAVID	LIMESTONE	0.2	71.2
633.9	CARBONDALE	TURNER MINE	DARK SHALE	1.6	71.4
632.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	73.0
630.9	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.6	74.4
627.3	CARBONDALE		UNDERCLAY	1.6	78.0

MAPID: 05785822000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12242 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.704824 DATE COLLECTED: 3 / 4 / 1981

SURFACE ELEVATION (FT.): 702.5 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29113 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
702.5	PLEISTOCENE		SOIL	1.0	0.0
701.5	PLEISTOCENE		CLAY	22.7	1.0
678.8	CARBONDALE		GRAY SHALE	3.5	23.7
675.3	CARBONDALE		GRAY SANDSTONE	3.1	27.2
672.2	CARBONDALE		GRAY SHALE	43.6	30.3
628.6	CARBONDALE	ST. DAVID	LIMESTONE	0.5	73.9
628.1	CARBONDALE	TURNER MINE	DARK SHALE	1.9	74.4
626.2	CARBONDALE	SPRINGFIELD	COAL	3.5	76.3
622.7	CARBONDALE		UNDERCLAY	1.2	79.8

MAPID: 05786451000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138611 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699003 DATE COLLECTED: 1 / 16 / 1981

SURFACE ELEVATION (FT.): 686.1 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29042 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
686.1	PLEISTOCENE		SOIL	1.0	0.0
685.1	PLEISTOCENE		CLAY	20.4	1.0
664.7	PLEISTOCENE		CLAY, SAND & GRAVEL	43.6	21.4

MAPID: 05786452000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.13834 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699104 DATE COLLECTED: 1 / 16 / 1981

SURFACE ELEVATION (FT.): 683.4 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29044 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
683.4	PLEISTOCENE		SOIL	1.0	0.0
682.4	PLEISTOCENE		CLAY	18.5	1.0
663.9	PLEISTOCENE		CLAY, SAND & GRAVEL	45.5	19.5

MAPID: 05786453000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138133

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699394

DATE COLLECTED: 1 / 19 / 1981

SURFACE ELEVATION (FT.): 685.1 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29046

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.1	PLEISTOCENE		SOIL	1.0	0.0	
684.1	PLEISTOCENE		CLAY	13.6	1.0	
670.5	PLEISTOCENE		CLAY, SAND & GRAVEL	45.4	14.6	

MAPID: 05786454000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137738

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699466

DATE COLLECTED: 1 / 19 / 1981

SURFACE ELEVATION (FT.): 682.9 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29047

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.9	PLEISTOCENE		SOIL	1.0	0.0	
681.9	PLEISTOCENE		CLAY	12.7	1.0	YELLOW
669.2	PLEISTOCENE		CLAY	46.3	13.7	GRAY

MAPID: 05786455000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137617

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699654

DATE COLLECTED: 1 / 19 / 1981

SURFACE ELEVATION (FT.): 680.1 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29049

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.1	PLEISTOCENE		SOIL	1.0	0.0	
679.1	PLEISTOCENE		CLAY	11.6	1.0	YELLOW
667.5	PLEISTOCENE		CLAY	47.4	12.6	GRAY

MAPID: 05786456000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137337 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699561 DATE COLLECTED: 1 / 19 / 1981

SURFACE ELEVATION (FT.): 684.1 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29050 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.1	PLEISTOCENE		SOIL	1.0	0.0
683.1	PLEISTOCENE		CLAY	18.0	1.0
665.1	PLEISTOCENE		CLAY, SAND & GRAVEL	40.2	19.0
624.9			GRAY SHALE	0.8	59.2

MAPID: 05786457000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699627 DATE COLLECTED: 1 / 21 / 1981

SURFACE ELEVATION (FT.): 686.9 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29052 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
686.9	PLEISTOCENE		SOIL	1.0	0.0
685.9	PLEISTOCENE		CLAY	19.3	1.0
666.6	PLEISTOCENE		CLAY & GRAVEL	23.7	20.3
642.9	PLEISTOCENE		CLAY	16.0	44.0

MAPID: 05786458000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136752 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699482 DATE COLLECTED: 1 / 20 / 1981

SURFACE ELEVATION (FT.): 688.8 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29053 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.8	PLEISTOCENE		SOIL	1.0	0.0
687.8	PLEISTOCENE		CLAY	20.1	1.0
667.7	PLEISTOCENE		CLAY & GRAVEL	44.1	21.1
623.6	CARBONDALE		GRAY SHALE	2.0	65.2
621.6	CARBONDALE		LIMESTONE	1.9	67.2
619.7	CARBONDALE		GRAY SHALE	0.9	69.1

MAPID: 05786459000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137868 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699763 DATE COLLECTED: 1 / 28 / 1981

SURFACE ELEVATION (FT.): 678.8 LOGGED (FT.): 57.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29087 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.8	PLEISTOCENE		SOIL	1.0	0.0	
677.8	PLEISTOCENE		CLAY	14.2	1.0	
663.6	PLEISTOCENE		CLAY & GRAVEL	41.8	15.2	

MAPID: 05786460000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138327 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699653 DATE COLLECTED: 1 / 29 / 1981

SURFACE ELEVATION (FT.): 681.5 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29089 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.5	PLEISTOCENE		SOIL	1.0	0.0	
680.5	PLEISTOCENE		CLAY	14.5	1.0	
666.0	PLEISTOCENE		CLAY & GRAVEL	44.5	15.5	

MAPID: 05786461000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138753 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699493 DATE COLLECTED: 1 / 29 / 1981

SURFACE ELEVATION (FT.): 682.7 LOGGED (FT.): 59.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29093 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.7	PLEISTOCENE		SOIL	1.0	0.0	
681.7	PLEISTOCENE		CLAY	18.2	1.0	
663.5	PLEISTOCENE		CLAY & GRAVEL	36.3	19.2	
627.2	CARBONDALE	SPRINGFIELD	COAL	2.5	55.5	BROKEN; TOP ERODED
624.7	CARBONDALE		UNDERCLAY	1.0	58.0	

MAPID: 05791441000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 6 / 24 / 1966

SURFACE ELEVATION (FT.): 682.3 LOGGED (FT.): 682.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9651 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
682.3	PLEISTOCENE		CLAY	21.5	0.0
660.8	CARBONDALE		GRAY SHALE	28.5	21.5
632.3	CARBONDALE		DARK SHALE	3.5	50.0
628.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	53.5
628.4	CARBONDALE	TURNER MINE	DARK SHALE	1.2	53.9
627.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	55.1
625.6	CARBONDALE	SPRINGFIELD	COAL	3.6	56.7
622.0	CARBONDALE		UNDERCLAY	0.3	60.3

MAPID: 05791442000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 6 / 24 / 1966

SURFACE ELEVATION (FT.): 695.0 LOGGED (FT.): 71.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9652 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
695.0	PLEISTOCENE		CLAY	22.0	0.0
673.0	PLEISTOCENE		CLAY, SAND & GRAVEL	12.8	22.0
660.2	CARBONDALE		GRAY SHALE	4.2	34.8
656.0	CARBONDALE		LIMESTONE	0.8	39.0
655.2	CARBONDALE		GRAY SHALE	1.4	39.8
653.8	CARBONDALE		LIMESTONE	0.5	41.2
653.3	CARBONDALE		DARK SHALE	22.2	41.7
631.1	CARBONDALE	ST. DAVID	LIMESTONE	0.3	63.9
630.8	CARBONDALE	TURNER MINE	DARK SHALE	1.4	64.2
629.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	65.6
628.0	CARBONDALE	SPRINGFIELD	COAL	3.7	67.0
624.3	CARBONDALE		UNDERCLAY	0.3	70.7

MAPID: 05791443000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED:

SURFACE ELEVATION (FT.): 694.0 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 177 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.0			UNKNOWN	50.0	0.0	NO COAL

MAPID: 05791444000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED:

SURFACE ELEVATION (FT.): 698.0 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 178 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.0			UNKNOWN	86.0	0.0	NO COAL

MAPID: 05791446000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED:

SURFACE ELEVATION (FT.): 686.0 LOGGED (FT.): 75.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 29094 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
686.0	PLEISTOCENE		UNCONSOLIDATED	47.0	0.0	
639.0			UNKNOWN	24.3	47.0	
614.7	CARBONDALE	SPRINGFIELD	COAL	3.8	71.3	

MAPID: 05791447000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED:

SURFACE ELEVATION (FT.): 700.6 LOGGED (FT.): 80.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 29095 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
700.6	PLEISTOCENE		UNCONSOLIDATED	25.0	0.0
675.6			UNKNOWN	51.6	25.0
624.0	CARBONDALE	SPRINGFIELD	COAL	3.8	76.6

MAPID: 05791448000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED:

SURFACE ELEVATION (FT.): 709.2 LOGGED (FT.): 87.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 29096 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
709.2	PLEISTOCENE		UNCONSOLIDATED	22.0	0.0
687.2			UNKNOWN	62.0	22.0
625.2	CARBONDALE	SPRINGFIELD	COAL	3.7	84.0

MAPID: 05791449000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED:

SURFACE ELEVATION (FT.): 708.7 LOGGED (FT.): 83.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 29097 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
708.7	PLEISTOCENE		UNCONSOLIDATED	24.0	0.0
684.7			UNKNOWN	55.5	24.0
629.2	CARBONDALE	SPRINGFIELD	COAL	3.8	79.5

MAPID: 0579145000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED:

SURFACE ELEVATION (FT.): 701.9 LOGGED (FT.): 82.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 29098 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.9	PLEISTOCENE		UNCONSOLIDATED	26.0	0.0	
675.9			UNKNOWN	52.7	26.0	
623.2	CARBONDALE	SPRINGFIELD	COAL	3.8	78.7	

MAPID: 05791451000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED:

SURFACE ELEVATION (FT.): 689.5 LOGGED (FT.): 65.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 29102 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.5	PLEISTOCENE		UNCONSOLIDATED	26.0	0.0	
663.5			UNKNOWN	35.8	26.0	
627.7	CARBONDALE	SPRINGFIELD	COAL	3.9	61.8	

MAPID: 05791452000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED:

SURFACE ELEVATION (FT.): 694.3 LOGGED (FT.): 72.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 29103 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.3	PLEISTOCENE		UNCONSOLIDATED	24.0	0.0	
670.3			UNKNOWN	44.6	24.0	
625.7	CARBONDALE	SPRINGFIELD	COAL	3.8	68.6	

MAPID: 05791453000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED:

SURFACE ELEVATION (FT.): 695.2 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 29104 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
695.2	PLEISTOCENE		UNCONSOLIDATED	51.0	0.0
644.2			UNKNOWN	20.2	51.0
624.0	CARBONDALE	SPRINGFIELD	COAL	3.8	71.2

MAPID: 05791454000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED:

SURFACE ELEVATION (FT.): 697.6 LOGGED (FT.): 79.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 29105 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
697.6	PLEISTOCENE		UNCONSOLIDATED	47.0	0.0
650.6			UNKNOWN	28.4	47.0
622.2	CARBONDALE	SPRINGFIELD	COAL	3.8	75.4

MAPID: 05791455000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED:

SURFACE ELEVATION (FT.): 696.2 LOGGED (FT.): 77.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 29106 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
696.2	PLEISTOCENE		UNCONSOLIDATED	36.0	0.0
660.2			UNKNOWN	37.1	36.0
623.1	CARBONDALE	SPRINGFIELD	COAL	4.0	73.1

MAPID: 0579145600C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 10 / 4 / 1973

SURFACE ELEVATION (FT.): 677.1 LOGGED (FT.): 49.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 17838 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.1	PLEISTOCENE		CLAY	12.8	0.0	
664.3	PLEISTOCENE			11.2	12.8	
653.1	PLEISTOCENE		CLAY	2.0	24.0	AND BOULDERS
651.1	CARBONDALE		DARK SHALE	17.4	26.0	
633.7	CARBONDALE	ST. DAVID	LIMESTONE	0.6	43.4	
633.1	CARBONDALE	TURNER MINE	DARK SHALE	1.0	44.0	
632.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	45.0	
631.1	CARBONDALE	SPRINGFIELD	COAL	3.2	46.0	
627.9	CARBONDALE		UNDERCLAY	0.6	49.2	

MAPID: 05791711000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 4 / 2 / 1963

SURFACE ELEVATION (FT.): 691.9 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8236 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
691.9	PLEISTOCENE		SOIL	1.0	0.0	
690.9	PLEISTOCENE			20.0	1.0	
670.9	PLEISTOCENE			3.9	21.0	AND BOULDERS
667.0	PLEISTOCENE			3.3	24.9	
663.7	PLEISTOCENE		CLAY	2.0	28.2	BOULD
661.7	CARBONDALE		GRAY SHALE	22.6	30.2	
639.1	CARBONDALE	ST. DAVID	LIMESTONE	0.3	52.8	
638.8	CARBONDALE	TURNER MINE	DARK SHALE	1.1	53.1	
637.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	54.2	
636.3	CARBONDALE	SPRINGFIELD	COAL	3.4	55.6	
632.9	CARBONDALE		UNDERCLAY	1.0	59.0	

MAPID: 05791712000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 4 / 4 / 1963

SURFACE ELEVATION (FT.): 688.8 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8239 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.8	PLEISTOCENE		SOIL	1.0	0.0
687.8	PLEISTOCENE		CLAY	17.6	1.0
670.2	CARBONDALE			1.6	18.6
668.6	CARBONDALE		GRAY SHALE	36.4	20.2
632.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	56.6
631.8	CARBONDALE	TURNER MINE	DARK SHALE	1.2	57.0
630.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	58.2
629.0	CARBONDALE	SPRINGFIELD	COAL	3.6	59.8
625.4	CARBONDALE		UNDERCLAY	1.6	63.4

MAPID: 05791713000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 4 / 4 / 1963

SURFACE ELEVATION (FT.): 688.7 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8240 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.7	PLEISTOCENE		SOIL	1.0	0.0
687.7	PLEISTOCENE		CLAY	12.2	1.0
675.5	CARBONDALE		SANDY SHALE	6.4	13.2
669.1	CARBONDALE		GRAY SHALE	13.4	19.6
655.7	CARBONDALE		LIMESTONE	0.7	33.0
655.0	CARBONDALE		GRAY SHALE	16.1	33.7
638.9	CARBONDALE	ST. DAVID	LIMESTONE	0.3	49.8
638.6	CARBONDALE	TURNER MINE	DARK SHALE	1.1	50.1
637.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	51.2
636.2	CARBONDALE	SPRINGFIELD	COAL	3.6	52.5
632.6	CARBONDALE		UNDERCLAY	1.9	56.1
630.7	CARBONDALE		GRAY SHALE	2.0	58.0

MAPID: 05791714000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 4 / 4 / 1963

SURFACE ELEVATION (FT.): 703.8 LOGGED (FT.): 79.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8241 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.8	PLEISTOCENE		SOIL	1.0	0.0	
702.8	PLEISTOCENE		CLAY	21.6	1.0	
681.2	CARBONDALE		SANDSTONE	2.4	22.6	SOFT
678.8	CARBONDALE		GRAY SHALE	22.0	25.0	
656.8	CARBONDALE		LIMESTONE	0.6	47.0	
656.2	CARBONDALE		GRAY SHALE	21.7	47.6	
634.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	69.3	
634.1	CARBONDALE	TURNER MINE	DARK SHALE	1.6	69.7	
632.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	71.3	
631.5	CARBONDALE	SPRINGFIELD	COAL	3.7	72.3	
627.8	CARBONDALE		UNDERCLAY	1.5	76.0	
626.3	CARBONDALE		GRAY SHALE	1.5	77.5	

MAPID: 05791715000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 3 / 5 / 1963

SURFACE ELEVATION (FT.): 697.9 LOGGED (FT.): 79.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8242 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.9	PLEISTOCENE		SOIL	1.0	0.0	
696.9	PLEISTOCENE		CLAY	18.0	1.0	
678.9	PLEISTOCENE			13.6	19.0	
665.3	CARBONDALE		GRAY SHALE	13.9	32.6	
651.4	CARBONDALE		LIMESTONE	1.0	46.5	
650.4	CARBONDALE		GRAY SHALE	22.3	47.5	
628.1	CARBONDALE	ST. DAVID	LIMESTONE	0.3	69.8	
627.8	CARBONDALE	TURNER MINE	DARK SHALE	1.3	70.1	
626.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	71.4	
625.0	CARBONDALE	SPRINGFIELD	COAL	3.8	72.9	
621.2	CARBONDALE		UNDERCLAY	2.3	76.7	

MAPID: 05791716000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 12 / 14 / 1965

SURFACE ELEVATION (FT.): 704.7 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9043 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
704.7	PLEISTOCENE		UNCONSOLIDATED	38.9	0.0
665.8	PLEISTOCENE		CLAYSTONE & SHALE	17.8	38.9
648.0	CARBONDALE		GRAY SHALE	13.2	56.7
634.8	CARBONDALE	TURNER MINE	SHALE	2.6	69.9
632.2	CARBONDALE	SPRINGFIELD	COAL	3.4	72.5
628.8	CARBONDALE		UNDERCLAY	2.1	75.9

MAPID: 05791717000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 12 / 15 / 1965

SURFACE ELEVATION (FT.): 708.9 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9044 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
708.9	PLEISTOCENE		SHALEY CLAYSTONE	37.0	0.0
671.9	CARBONDALE		GRAY SHALE	40.8	37.0
631.1	CARBONDALE	TURNER MINE	SHALE	3.2	77.8
627.9	CARBONDALE	SPRINGFIELD	COAL	3.6	81.0
624.3	CARBONDALE		UNDERCLAY	1.4	84.6

MAPID: 05791718000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW

LONGITUDE: -90.129232

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 40.705999

DATE COLLECTED: 12 / 15 / 1965

SURFACE ELEVATION (FT.): 703.8

LOGGED (FT.): 78.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9045

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.8	PLEISTOCENE		SAND & GRAVEL	29.3	0.0	
674.5	CARBONDALE		ARGILACEOUS SHALE	29.3	29.3	
645.2	CARBONDALE		GRAY SHALE	11.3	58.6	
633.9	CARBONDALE	TURNER MINE	DARK SHALE	2.2	69.9	
631.7	CARBONDALE	SPRINGFIELD	COAL	3.7	72.1	DIRTY
628.0	CARBONDALE		UNDERCLAY	2.2	75.8	

MAPID: 05791719000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW

LONGITUDE: -90.129232

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 40.705999

DATE COLLECTED: 12 / 16 / 1965

SURFACE ELEVATION (FT.): 696.0

LOGGED (FT.): 72.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9045

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.0	PLEISTOCENE		SHALEY CLAYSTONE	29.7	0.0	
666.3	CARBONDALE		GRAY SHALE	34.0	29.7	
632.3	CARBONDALE	TURNER MINE	SHALE	3.3	63.7	
629.0	CARBONDALE	SPRINGFIELD	COAL	3.6	67.0	
625.4	CARBONDALE		UNDERCLAY	1.4	70.6	

MAPID: 0579172000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 12 / 16 / 1965

SURFACE ELEVATION (FT.): 704.5 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9048 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
704.5	PLEISTOCENE		SHALEY CLAYSTONE	28.7	0.0
675.8	CARBONDALE		GRAY SHALE	38.0	28.7
637.8	CARBONDALE	TURNER MINE	SHALE	2.5	66.7
635.3	CARBONDALE	SPRINGFIELD	COAL	3.5	69.2
631.8	CARBONDALE		UNDERCLAY	1.3	72.7

MAPID: 05791721000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 3 / 16 / 1963

SURFACE ELEVATION (FT.): 706.8 LOGGED (FT.): 84.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8204 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
706.8	PLEISTOCENE		SOIL	1.0	0.0
705.8	PLEISTOCENE		CLAY	24.7	1.0
681.1	CARBONDALE		GRAY SHALE	34.0	25.7
647.1	CARBONDALE		DARK SHALE	15.5	59.7
631.6	CARBONDALE	ST. DAVID	LIMESTONE	0.4	75.2
631.2	CARBONDALE	TURNER MINE	DARK SHALE	1.3	75.6
629.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	76.9
628.2	CARBONDALE	SPRINGFIELD	COAL	3.6	78.6
624.6	CARBONDALE		UNDERCLAY	1.8	82.2

MAPID: 05791722000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 3 / 18 / 1963

SURFACE ELEVATION (FT.): 700.3 LOGGED (FT.): 77.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8205 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.3	PLEISTOCENE		SOIL	1.0	0.0	
699.3	PLEISTOCENE			16.0	1.0	
683.3	PLEISTOCENE		SAND & GRAVEL	6.9	17.0	
676.4	CARBONDALE		GRAY SHALE	22.3	23.9	
654.1	CARBONDALE		LIMESTONE	2.3	46.2	
651.8	CARBONDALE		CALCAREOUS SHALE	6.3	48.5	
645.5	CARBONDALE		DARK SHALE	14.5	54.8	
631.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	69.3	
630.5	CARBONDALE	TURNER MINE	DARK SHALE	1.4	69.8	
629.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	71.2	
628.0	CARBONDALE	SPRINGFIELD	COAL	3.8	72.3	
624.2	CARBONDALE		UNDERCLAY	0.9	76.1	

MAPID: 05791725000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 12 / 20 / 1951

SURFACE ELEVATION (FT.): 699.2 LOGGED (FT.): 74.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 5734 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
699.2	PLEISTOCENE		SOIL	1.0	0.0	
698.2	PLEISTOCENE		CLAY	19.6	1.0	YEL
678.6	PLEISTOCENE		CLAY	5.3	20.6	GRAY
673.3	PLEISTOCENE		SAND & GRAVEL	3.7	25.9	
669.6	CARBONDALE		GRAY SHALE	16.7	29.6	
652.9	CARBONDALE		GRAY SANDSTONE	3.6	46.3	
649.3	CARBONDALE		DARK SHALE	16.5	49.9	
632.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	66.4	
632.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	66.9	
629.8	CARBONDALE	SPRINGFIELD		3.8	69.4	
626.0	CARBONDALE		UNDERCLAY	1.0	73.2	

MAPID: 05791726000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 1 / 19 / 1959

SURFACE ELEVATION (FT.): 695.5 LOGGED (FT.): 71.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6523 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.5	PLEISTOCENE		SOIL	1.0	0.0	
694.5	PLEISTOCENE		CLAY	19.3	1.0	
675.2	CARBONDALE		SANDY SHALE	8.0	20.3	SOFT
667.2	CARBONDALE		SHALE & SANDSTONE	20.4	28.3	
646.8	CARBONDALE		DARK SHALE	14.2	48.7	
632.6	CARBONDALE	ST. DAVID	LIMESTONE	0.8	62.9	
631.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.4	63.7	
629.4	CARBONDALE	SPRINGFIELD		3.9	66.1	
625.5	CARBONDALE		UNDERCLAY	1.0	70.0	

MAPID: 05791728000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 1 / 21 / 1959

SURFACE ELEVATION (FT.): 692.6 LOGGED (FT.): 76.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6525 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
692.6	PLEISTOCENE		SOIL	1.0	0.0	
691.6	PLEISTOCENE		CLAY	15.7	1.0	
675.9	PLEISTOCENE			14.0	16.7	
661.9	PLEISTOCENE		CLAY, SAND & GRAVEL	15.6	30.7	
646.3	PLEISTOCENE		CLAY	0.6	46.3	BOULD
645.7	CARBONDALE		SHALE & SANDSTONE	22.5	46.9	
623.2	CARBONDALE	TURNER MINE	DARK SHALE	1.0	69.4	
622.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	70.4	
621.0	CARBONDALE	SPRINGFIELD		3.8	71.6	AND ROCK
617.2	CARBONDALE		UNDERCLAY	1.0	75.4	

MAPID: 05791729000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 1 / 24 / 1959

SURFACE ELEVATION (FT.): 689.7 LOGGED (FT.): 71.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6526 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.7	PLEISTOCENE		SOIL	1.0	0.0	
688.7	PLEISTOCENE		CLAY	13.5	1.0	YEL
675.2	PLEISTOCENE		CLAY	8.0	14.5	GRAY
667.2	CARBONDALE		GRAY SHALE	19.0	22.5	
648.2	CARBONDALE		LIMESTONE	0.4	41.5	
647.8	CARBONDALE		GRAY SHALE	2.1	41.9	
645.7	CARBONDALE		LIMESTONE	0.2	44.0	
645.5	CARBONDALE		GRAY SANDSTONE	3.2	44.2	
642.3	CARBONDALE		SHALE & SANDSTONE	15.8	47.4	
626.5	CARBONDALE	ST. DAVID	LIMESTONE	0.2	63.2	
626.3	CARBONDALE	TURNER MINE	DARK SHALE	1.5	63.4	
624.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	64.9	
623.6	CARBONDALE	SPRINGFIELD		3.8	66.1	
619.8	CARBONDALE		UNDERCLAY	1.1	69.9	

MAPID: 05791730000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 1 / 26 / 1959

SURFACE ELEVATION (FT.): 679.1 LOGGED (FT.): 53.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6528 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.1	PLEISTOCENE		SOIL	1.0	0.0	
678.1	PLEISTOCENE			14.0	1.0	
664.1	PLEISTOCENE		CLAY	4.2	15.0	AND BOULDERS
659.9	CARBONDALE		GRAY SHALE	6.3	19.2	
653.6	CARBONDALE		LIMESTONE	0.3	25.5	
653.3	CARBONDALE		SHALE & SANDSTONE	10.8	25.8	
642.5	CARBONDALE		GRAY SHALE	9.4	36.6	
633.1	CARBONDALE	ST. DAVID	LIMESTONE	0.5	46.0	
632.6	CARBONDALE	TURNER MINE	DARK SHALE	1.0	46.5	
631.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	47.5	
630.0	CARBONDALE	SPRINGFIELD		3.8	49.1	
626.2	CARBONDALE		UNDERCLAY	1.0	52.9	

MAPID: 05791731000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 1 / 26 / 1959

SURFACE ELEVATION (FT.): 695.8 LOGGED (FT.): 71.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6529 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.8	PLEISTOCENE		SOIL	1.0	0.0	
694.8	PLEISTOCENE			22.2	1.0	
672.6	PLEISTOCENE		CLAY	4.4	23.2	AND BOULDERS
668.2	CARBONDALE		GRAY SHALE	4.8	27.6	
663.4	CARBONDALE		LIMESTONE	0.4	32.4	
663.0	CARBONDALE		GRAY SHALE	2.9	32.8	
660.1	CARBONDALE		LIMESTONE	0.3	35.7	
659.8	CARBONDALE		GRAY SHALE	6.2	36.0	
653.6	CARBONDALE		LIMESTONE	0.5	42.2	
653.1	CARBONDALE		GRAY SHALE	6.7	42.7	
646.4	CARBONDALE		GRAY SANDSTONE	5.0	49.4	
641.4	CARBONDALE		SHALE & SANDSTONE	9.1	54.4	
632.3	CARBONDALE	ST. DAVID	LIMESTONE	0.6	63.5	
631.7	CARBONDALE	TURNER MINE	DARK SHALE	0.9	64.1	
630.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	65.0	
629.6	CARBONDALE	SPRINGFIELD		3.8	66.2	
625.8	CARBONDALE		UNDERCLAY	1.0	70.0	

MAPID: 05791732000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 1 / 29 / 1959

SURFACE ELEVATION (FT.): 689.4 LOGGED (FT.): 65.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6532 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.4	PLEISTOCENE		SOIL	1.0	0.0	
688.4	PLEISTOCENE			16.5	1.0	
671.9	PLEISTOCENE		CLAY	0.8	17.5	BOULD
671.1	PLEISTOCENE		SAND & GRAVEL	11.6	18.3	
659.5	CARBONDALE		CALCAREOUS SHALE	11.9	29.9	
647.6	CARBONDALE		GRAY SANDSTONE	3.4	41.8	
644.2	CARBONDALE		LIMESTONE	0.7	45.2	
643.5	CARBONDALE		GRAY SHALE	11.4	45.9	
632.1	CARBONDALE	ST. DAVID	LIMESTONE	0.5	57.3	
631.6	CARBONDALE	TURNER MINE	DARK SHALE	1.1	57.8	
630.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	58.9	
628.6	CARBONDALE	SPRINGFIELD		3.7	60.8	
624.9	CARBONDALE		UNDERCLAY	1.0	64.5	

MAPID: 05791733000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 1 / 30 / 1959

SURFACE ELEVATION (FT.): 697.4 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6534 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.4	PLEISTOCENE		SOIL	1.0	0.0	
696.4	PLEISTOCENE		CLAY	18.3	1.0	
678.1	CARBONDALE		SANDY SHALE	3.5	19.3	
674.6	CARBONDALE		GRAY SHALE	18.0	22.8	
656.6	CARBONDALE		LIMESTONE	0.4	40.8	
656.2	CARBONDALE		GRAY SHALE	1.2	41.2	
655.0	CARBONDALE		LIMESTONE	0.3	42.4	
654.7	CARBONDALE		DARK SHALE	19.7	42.7	
635.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	62.4	
634.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	62.8	
633.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	64.0	
632.0	CARBONDALE	SPRINGFIELD		3.7	65.4	
628.3	CARBONDALE		UNDERCLAY	0.9	69.1	

MAPID: 05791734000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705999 DATE COLLECTED: 4 / 27 / 1959

SURFACE ELEVATION (FT.): 683.0 LOGGED (FT.): 61.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6536 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
683.0	PLEISTOCENE		SOIL	1.0	0.0
682.0	PLEISTOCENE		CLAY	8.9	1.0
673.1	PLEISTOCENE			12.8	9.9
660.3	CARBONDALE		GRAY SHALE	6.2	22.7
654.1	CARBONDALE		LIMESTONE	0.3	28.9
653.8	CARBONDALE		SHALE	2.7	29.2
651.1	CARBONDALE		LIMESTONE	0.4	31.9
650.7	CARBONDALE		SHALE	1.8	32.3
648.9	CARBONDALE		LIMESTONE	1.5	34.1
647.4	CARBONDALE		GRAY SHALE	18.3	35.6
629.1	CARBONDALE	ST. DAVID	LIMESTONE	0.6	53.9
628.5	CARBONDALE	TURNER MINE	DARK SHALE	1.4	54.5
627.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	55.9
625.8	CARBONDALE	SPRINGFIELD		3.7	57.2
622.1	CARBONDALE		UNDERCLAY	1.0	60.9

MAPID: 05701952000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES: 975' N line, 500' W line of SW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.155729 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.703327 DATE COLLECTED: 10 / 0 / 1973

SURFACE ELEVATION (FT.): 690.0 LOGGED (FT.): 1530.0 LOG TYPE: Drillers Log

SOURCE: NORTON WELL DRILLING WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.0			UNCONSOLIDATED	20.0	0.0	
670.0	CARBONDALE		SHALE	15.0	20.0	GY + GNSH GY
655.0	CARBONDALE	ST. DAVID	LIMESTONE W/ SHALE	19.0	35.0	BK SH
636.0	CARBONDALE	ST. DAVID	LIMESTONE	2.0	54.0	
634.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	56.0	FISSILE
632.0	CARBONDALE	SPRINGFIELD	COAL	4.0	58.0	
628.0	CARBONDALE		GRAY SHALE	2.0	62.0	
626.0	CARBONDALE		LIMESTONE	1.0	64.0	
625.0	CARBONDALE		SHALE	3.0	65.0	
622.0	CARBONDALE		LIMESTONE	2.0	68.0	
620.0	CARBONDALE		SHALE	15.0	70.0	
605.0	CARBONDALE		LIMESTONE	5.0	85.0	DARK GRAY
600.0	CARBONDALE		SANDSTONE	10.0	90.0	GRAY
590.0	CARBONDALE		GRAY SHALE	42.0	100.0	
548.0	CARBONDALE		LIMESTONE	1.0	142.0	DK GY TO TAN
547.0	CARBONDALE		GRAY SHALE	4.0	143.0	
543.0	CARBONDALE		LIMESTONE	2.0	147.0	DK GY TO TAN
541.0	CARBONDALE		BLACK SHALE	4.0	149.0	
537.0	CARBONDALE		LIMESTONE	1.0	153.0	
536.0	CARBONDALE		BLACK SHALE	6.0	154.0	
530.0	CARBONDALE		LIMESTONE	1.0	160.0	
529.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	161.0	FISSILE
527.0	CARBONDALE	COLCHESTER	COAL	3.0	163.0	BASE OF CARBONDALE
524.0	SPOON		SHALE	4.0	166.0	LIGHT GRAY
520.0	SPOON	BROWNING	SANDSTONE	7.0	170.0	GRAY
513.0	SPOON		SHALE	14.0	177.0	LIGHT GRAY
499.0	SPOON		LIMESTONE	1.0	191.0	TAN
498.0	SPOON		SHALE	11.0	192.0	
487.0	SPOON		LIMESTONE	1.0	203.0	
486.0	SPOON		SHALE	6.0	204.0	LIGHT GRAY
480.0	SPOON		SANDSTONE	15.0	210.0	GRAY
465.0	SPOON		LIMESTONE	5.0	225.0	DARK GRAY
460.0	SPOON		ROCK	8.0	230.0	"BK ROCK + PYR"
452.0	SPOON		BLACK SHALE	11.0	238.0	
441.0	SPOON		ROCK	6.0	249.0	BLACK
435.0	SPOON		BLACK SHALE	2.0	255.0	
433.0	SPOON	SEVILLE	LIMESTONE	3.0	257.0	BS SPOON; GY
430.0	ABBOTT		SANDSTONE	5.0	260.0	
425.0	ABBOTT		SHALE	18.0	265.0	BS PENNSYLVANIAN; DK GY

407.0

ROCK

1247.0

283.0

MISSISSIPPIAN AND OLDER

MAPID: 05785797000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.037866

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.021277

DATE COLLECTED: 5 / 9 / 1945

SURFACE ELEVATION (FT.): 667.9 LOGGED (FT.): 32.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 2052

WELL TYPE: Coal Test

COMMENT: COORDINATES UPDATED. CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.9	PLEISTOCENE		SOIL	1.0	0.0	
666.9	PLEISTOCENE		CLAY	5.0	1.0	
661.9	PLEISTOCENE		SANDY CLAY	12.6	6.0	
649.3	CARBONDALE		GRAY SHALE	8.1	18.6	
641.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	26.7	
640.0	CARBONDALE	SPRINGFIELD	COAL	3.7	27.9	
636.3	CARBONDALE		UNDERCLAY	1.1	31.6	

MAPID: 05785798000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705997

DATE COLLECTED: 8 / 14 / 1945

SURFACE ELEVATION (FT.): 750.9 LOGGED (FT.): 77.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 2072

WELL TYPE: Coal Test

COMMENT: COORDINATES UPDATED. CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.9	PLEISTOCENE		SOIL	1.0	0.0	
749.9	PLEISTOCENE		CLAY	27.6	1.0	YELLOW
722.3	PLEISTOCENE		CLAY	5.0	28.6	GRAY
717.3	CARBONDALE		MICACEOUS SHALE	6.4	33.6	
710.9	CARBONDALE		GRAY SHALE	14.1	40.0	
696.8	CARBONDALE		GRAY SHALE	11.9	54.1	
684.9	CARBONDALE		DARK SHALE	6.8	66.0	
678.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	72.8	
677.3	CARBONDALE	SPRINGFIELD	COAL	1.8	73.6	
675.5	CARBONDALE		UNDERCLAY	2.2	75.4	

MAPID: 0578580000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.146004

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705057

DATE COLLECTED: 11 / 25 / 1975

SURFACE ELEVATION (FT.): 695.6 LOGGED (FT.): 78.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23984

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.6	PLEISTOCENE		CLAY	22.3	0.0	
673.3	CARBONDALE		SANDSTONE	4.9	22.3	SOFT
668.4	CARBONDALE		SHALE	22.8	27.2	
645.6	CARBONDALE		SANDSTONE	0.8	50.0	
644.8	CARBONDALE		SHALE	17.0	50.8	
627.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	67.8	
627.3	CARBONDALE	TURNER MINE	SHALE	2.9	68.3	
624.4	CARBONDALE	SPRINGFIELD	COAL	3.3	71.2	
621.1	CARBONDALE		SHALE/UNDERCLAY	3.5	74.5	

MAPID: 05785801000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.15341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.706088

DATE COLLECTED: 4 / 4 / 1944

SURFACE ELEVATION (FT.): 671.9 LOGGED (FT.): 39.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 1600

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.9	PLEISTOCENE		SOIL	1.0	0.0	
670.9	PLEISTOCENE		CLAY	19.0	1.0	
651.9	PLEISTOCENE		SANDY CLAY	3.0	20.0	
648.9	PLEISTOCENE		CLAY	8.4	23.0	
640.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.2	31.4	SOFT
638.3	CARBONDALE	SPRINGFIELD	COAL	4.4	33.6	
633.9	CARBONDALE		UNDERCLAY	1.0	38.0	

MAPID: 05785802000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14795 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.706062 DATE COLLECTED: 5 / 10 / 1944

SURFACE ELEVATION (FT.): 689.1 LOGGED (FT.): 76.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 1601 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.1	PLEISTOCENE		SOIL	25.0	0.0	
664.1	PLEISTOCENE		CLAY	11.3	25.0	
652.8	PLEISTOCENE		SAND	2.1	36.3	
650.7	PLEISTOCENE		CLAY	11.0	38.4	
639.7	CARBONDALE		DARK SHALE	18.9	49.4	
620.8	CARBONDALE	ST. DAVID	LIMESTONE	0.6	68.3	
620.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	68.9	SOFT
618.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	70.5	
617.0	CARBONDALE	SPRINGFIELD	COAL	3.7	72.1	HARD
613.3	CARBONDALE		UNDERCLAY	1.1	75.8	

MAPID: 05785803000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.146007 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.706084 DATE COLLECTED: 4 / 9 / 1945

SURFACE ELEVATION (FT.): 700.2 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 1903 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.2	PLEISTOCENE		SOIL	18.0	0.0	
682.2	PLEISTOCENE		CLAY & GRAVEL	8.0	18.0	
674.2	PLEISTOCENE		CLAY	10.0	26.0	
664.2	CARBONDALE		GRAY SHALE	23.0	36.0	
641.2	CARBONDALE		DARK SHALE	7.7	59.0	
633.5	CARBONDALE	ST. DAVID	LIMESTONE	0.6	66.7	
632.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	67.3	
631.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	68.4	
630.1	CARBONDALE	SPRINGFIELD	COAL	3.6	70.1	
626.5	CARBONDALE		UNDERCLAY	2.3	73.7	

MAPID: 05785804000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.1459 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.707836 DATE COLLECTED: 4 / 8 / 1945

SURFACE ELEVATION (FT.): 700.2 LOGGED (FT.): 76.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 1948 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
700.2	PLEISTOCENE		SOIL	1.0	0.0
699.2	PLEISTOCENE		CLAY	6.0	1.0
693.2	PLEISTOCENE		SANDY CLAY	19.5	7.0
673.7	PLEISTOCENE		CLAY	7.8	26.5
665.9	CARBONDALE		GRAY SHALE	35.4	34.3
630.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	69.7
628.5	CARBONDALE	SPRINGFIELD	COAL	3.5	71.7
625.0	CARBONDALE		UNDERCLAY	1.5	75.2

MAPID: 05785805000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147008 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.706964 DATE COLLECTED: 4 / 12 / 1945

SURFACE ELEVATION (FT.): 700.4 LOGGED (FT.): 84.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 1952 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MPA 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
700.4	PLEISTOCENE		SOIL	1.0	0.0
699.4	PLEISTOCENE		CLAY	6.0	1.0
693.4	PLEISTOCENE		SANDY CLAY	17.7	7.0
675.7	PLEISTOCENE		CLAY	10.2	24.7
665.5	CARBONDALE		GRAY SHALE	39.9	34.9
625.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.7	74.8
622.9	CARBONDALE	SPRINGFIELD	COAL	4.3	77.5
618.6	CARBONDALE		UNDERCLAY	2.9	81.8

MAPID: 05785806000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.152927 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.706057 DATE COLLECTED: 4 / 21 / 1945

SURFACE ELEVATION (FT.): 674.0 LOGGED (FT.): 41.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 1984 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.0	PLEISTOCENE		SOIL	1.0	0.0	
673.0	PLEISTOCENE		CLAY	5.0	1.0	
668.0	PLEISTOCENE		SAND/CLAY	14.6	6.0	
653.4	CARBONDALE		GRAY SHALE	13.4	20.6	
640.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.7	34.0	
637.3	CARBONDALE	SPRINGFIELD	COAL	3.3	36.7	
634.0	CARBONDALE		UNDERCLAY	1.7	40.0	

MAPID: 05785807000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.152583 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.706037 DATE COLLECTED: 4 / 24 / 1945

SURFACE ELEVATION (FT.): 678.6 LOGGED (FT.): 45.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 1992 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.6	PLEISTOCENE		SOIL	1.0	0.0	
677.6	PLEISTOCENE		CLAY	5.0	1.0	
672.6	PLEISTOCENE		SANDY CLAY	14.6	6.0	YELLOW
658.0	PLEISTOCENE		SANDY CLAY	25.1	20.6	GRAY

MAPID: 05785808000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.151789 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.706036 DATE COLLECTED: 4 / 24 / 1945

SURFACE ELEVATION (FT.): 676.3 LOGGED (FT.): 50.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 1994 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.3	PLEISTOCENE		SOIL	1.0	0.0	
675.3	PLEISTOCENE		CLAY	5.0	1.0	
670.3	PLEISTOCENE		SANDY CLAY	14.6	6.0	
655.7	CARBONDALE		GRAY SHALE	22.6	20.6	
633.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	43.2	
631.6	CARBONDALE	SPRINGFIELD	COAL	1.2	44.7	
630.4	CARBONDALE	SPRINGFIELD	CLAYSTONE	0.2	45.9	WHITE TOP
630.2	CARBONDALE	SPRINGFIELD	COAL	1.8	46.1	
628.4	CARBONDALE	SPRINGFIELD	CLAYSTONE	0.2	47.9	WHITE TOP
628.2	CARBONDALE	SPRINGFIELD	COAL	0.9	48.1	
627.3	CARBONDALE		UNDERCLAY	1.7	49.0	

MAPID: 05785809000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.150712 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.706053 DATE COLLECTED: 4 / 24 / 1945

SURFACE ELEVATION (FT.): 682.6 LOGGED (FT.): 52.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 1998 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.6	PLEISTOCENE		SOIL	1.0	0.0	
681.6	PLEISTOCENE		CLAY	5.0	1.0	
676.6	PLEISTOCENE		SANDY CLAY	14.6	6.0	
662.0	CARBONDALE		GRAY SHALE	25.1	20.6	
636.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	45.7	
635.7	CARBONDALE	SPRINGFIELD	COAL	3.4	46.9	
632.3	CARBONDALE		UNDERCLAY	2.2	50.3	

MAPID: 05785885000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147711

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699183

DATE COLLECTED: 3 / 15 / 1966

SURFACE ELEVATION (FT.): 678.3 LOGGED (FT.): 49.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9624

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 7

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
678.3	PLEISTOCENE		CLAY & SHALE	22.3	0.0
656.0	CARBONDALE		GRAY SHALE	16.0	22.3
640.0	CARBONDALE		LIMESTONE	0.4	38.3
639.6	CARBONDALE		DARK SHALE	3.1	38.7
636.5	CARBONDALE		ARGILACEOUS SHALE	7.2	41.8

MAPID: 05785886000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147027

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699231

DATE COLLECTED: 3 / 15 / 1966

SURFACE ELEVATION (FT.): 677.8 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9625

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 7

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
677.8	PLEISTOCENE		CLAY & SHALE	24.2	0.0
653.6	CARBONDALE		GRAY SHALE	12.2	24.2
641.4	CARBONDALE	ST. DAVID	LIMESTONE	0.4	36.4
641.0	CARBONDALE	TURNER MINE	SHALE	2.9	36.8
638.1	CARBONDALE	SPRINGFIELD	COAL	3.5	39.7
634.6	CARBONDALE		UNDERCLAY	1.8	43.2

MAPID: 05785887000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.151809

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705098

DATE COLLECTED: 2 / 23 / 1966

SURFACE ELEVATION (FT.): 685.4 LOGGED (FT.): 62.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9532

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 4

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.4	PLEISTOCENE		CLAY & SHALE	27.7	0.0	
657.7	CARBONDALE		GRAY SHALE	24.8	27.7	
632.9	CARBONDALE		SHALE	4.0	52.5	
628.9	CARBONDALE	SPRINGFIELD	CAVITY	4.5	56.5	
624.4	CARBONDALE		UNDERCLAY	1.0	61.0	

MAPID: 05785888000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144514

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.706991

DATE COLLECTED: 3 / 12 / 1945

SURFACE ELEVATION (FT.): 659.1 LOGGED (FT.): 35.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1890

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 4

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.1	PLEISTOCENE		SOIL	1.0	0.0	
658.1	PLEISTOCENE		CLAY	5.0	1.0	YELLOW
653.1	PLEISTOCENE		SANDY CLAY	8.7	6.0	YELLOW
644.4	PLEISTOCENE		CLAY	9.1	14.7	GRAY
635.3	CARBONDALE		GRAY SHALE	3.5	23.8	
631.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	27.3	
630.2	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.5	28.9	
626.7	CARBONDALE		UNDERCLAY	3.3	32.4	

MAPID: 05786393000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139075

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699009

DATE COLLECTED: 12 / 2 / 1975

SURFACE ELEVATION (FT.): 685.6 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 24400

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.6	PLEISTOCENE		UNCONSOLIDATED	70.0	0.0	

MAPID: 05786411000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139038

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699276

DATE COLLECTED: 11 / 4 / 1980

SURFACE ELEVATION (FT.): 686.1 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28957

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
686.1	PLEISTOCENE		SOIL	1.0	0.0
685.1	PLEISTOCENE		CLAY	19.5	1.0
665.6	PLEISTOCENE		CLAY & GRAVEL	32.7	20.5
632.9	CARBONDALE		LIMESTONE	1.2	53.2
631.7	CARBONDALE		GRAY SHALE	10.6	54.4

MAPID: 05786412000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144209

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6991

DATE COLLECTED: 11 / 4 / 1980

SURFACE ELEVATION (FT.): 681.3 LOGGED (FT.): 53.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28958

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.3	PLEISTOCENE		SOIL	1.0	0.0
680.3	PLEISTOCENE		CLAY	18.5	1.0
661.8	PLEISTOCENE		CLAY & GRAVEL	16.7	19.5
645.1	CARBONDALE		GRAY SHALE	10.3	36.2
634.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	46.5
634.3	CARBONDALE	TURNER MINE	SHALE	2.0	47.0
632.3	CARBONDALE	SPRINGFIELD	COAL	3.5	49.0
628.8	CARBONDALE		UNDERCLAY	0.5	52.5

MAPID: 05786413000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144242

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.698774

DATE COLLECTED: 11 / 3 / 1980

SURFACE ELEVATION (FT.): 683.7 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28959

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
683.7	PLEISTOCENE		SOIL	1.0	0.0
682.7	PLEISTOCENE		CLAY	26.5	1.0
656.2	PLEISTOCENE		CLAY & GRAVEL	29.0	27.5
627.2			GRAY SHALE	3.5	56.5

MAPID: 05786414000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142641

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.698896

DATE COLLECTED: 11 / 3 / 1980

SURFACE ELEVATION (FT.): 681.3 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28960

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.3	PLEISTOCENE		SOIL	1.0	0.0
680.3	PLEISTOCENE		CLAY	16.5	1.0
663.8	PLEISTOCENE		CLAY & GRAVEL	37.5	17.5

MAPID: 05786415000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142154

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.69881

DATE COLLECTED: 11 / 4 / 1980

SURFACE ELEVATION (FT.): 683.4 LOGGED (FT.): 47.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28961

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
683.4	PLEISTOCENE		SOIL	1.0	0.0
682.4	PLEISTOCENE		CLAY	16.3	1.0
666.1	PLEISTOCENE		CLAY, SAND & GRAVEL	25.7	17.3
640.4	CARBONDALE	SPRINGFIELD	COAL	3.0	43.0 TOP ERODED
637.4	CARBONDALE		UNDERCLAY	1.0	46.0

MAPID: 05786416000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144226

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699409

DATE COLLECTED: 11 / 4 / 1980

SURFACE ELEVATION (FT.): 679.7 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28962

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
679.7	PLEISTOCENE		SOIL	1.0	0.0
678.7	PLEISTOCENE		CLAY	14.2	1.0
664.5	PLEISTOCENE		CLAY & GRAVEL	17.3	15.2
647.2	CARBONDALE		DARK SHALE	10.1	32.5
637.1	CARBONDALE	ST. DAVID	LIMESTONE	0.6	42.6
636.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	43.2
635.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	44.2
633.7	CARBONDALE	SPRINGFIELD	COAL	3.4	46.0
630.3	CARBONDALE		UNDERCLAY	0.6	49.4

MAPID: 05786417000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144636

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699765

DATE COLLECTED: 4 / 11 / 1980

SURFACE ELEVATION (FT.): 671.9 LOGGED (FT.): 42.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28963

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
671.9	PLEISTOCENE		SOIL	1.0	0.0
670.9	PLEISTOCENE		CLAY	16.0	1.0
654.9	PLEISTOCENE		CLAY & GRAVEL	11.5	17.0
643.4	CARBONDALE		GRAY SHALE	5.5	28.5
637.9	CARBONDALE	ST. DAVID	LIMESTONE	0.4	34.0
637.5	CARBONDALE	TURNER MINE	DARK SHALE	2.6	34.4
634.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	37.0
633.9	CARBONDALE	SPRINGFIELD	COAL	3.5	38.0
630.4	CARBONDALE		UNDERCLAY	0.5	41.5

MAPID: 05786418000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144438

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700003

DATE COLLECTED: 11 / 4 / 1980

SURFACE ELEVATION (FT.): 677.1 LOGGED (FT.): 47.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28964

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.1	PLEISTOCENE		SOIL	1.0	0.0	
676.1	PLEISTOCENE		CLAY	18.5	1.0	YELLOW
657.6	PLEISTOCENE		CLAY	14.5	19.5	GRAY
643.1	CARBONDALE		GRAY SHALE	7.0	34.0	
636.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	41.0	
634.3	CARBONDALE	SPRINGFIELD	COAL	3.2	42.8	
631.1	CARBONDALE		UNDERCLAY	1.0	46.0	

MAPID: 05786419000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144777

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700137

DATE COLLECTED: 11 / 4 / 1980

SURFACE ELEVATION (FT.): 675.9 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28965

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.9	PLEISTOCENE		SOIL	1.0	0.0	
674.9	PLEISTOCENE		CLAY	19.6	1.0	YELLOW
655.3	PLEISTOCENE		CLAY	19.2	20.6	GRAY
636.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	39.8	SOFT
635.1	CARBONDALE	SPRINGFIELD	COAL	3.0	40.8	
632.1	CARBONDALE		UNDERCLAY	1.2	43.8	

MAPID: 0578642000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145107

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700152

DATE COLLECTED: 11 / 4 / 1980

SURFACE ELEVATION (FT.): 672.2 LOGGED (FT.): 38.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28966

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.2	PLEISTOCENE		SOIL	1.0	0.0	
671.2	PLEISTOCENE		CLAY	15.4	1.0	YELLOW
655.8	PLEISTOCENE		CLAY	11.6	16.4	GRAY
644.2	CARBONDALE		GRAY SHALE	4.7	28.0	
639.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	32.7	
638.4	CARBONDALE	SPRINGFIELD	COAL	3.2	33.8	
635.2	CARBONDALE		UNDERCLAY	1.0	37.0	

MAPID: 05786421000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144891

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700376

DATE COLLECTED: 11 / 5 / 1980

SURFACE ELEVATION (FT.): 676.3 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28970

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.3	PLEISTOCENE		SOIL	1.0	0.0	
675.3	PLEISTOCENE		CLAY	21.2	1.0	
654.1	PLEISTOCENE		CLAY & GRAVEL	22.8	22.2	

MAPID: 05786422000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144539

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700315

DATE COLLECTED: 11 / 5 / 1980

SURFACE ELEVATION (FT.): 679.4 LOGGED (FT.): 56.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28971

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.4	PLEISTOCENE		SOIL	1.0	0.0	
678.4	PLEISTOCENE		CLAY	27.2	1.0	
651.2	PLEISTOCENE		CLAY, SAND & GRAVEL	27.8	28.2	

MAPID: 05786423000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144237

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700151

DATE COLLECTED: 11 / 5 / 1980

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 51.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28972

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.0	PLEISTOCENE		SOIL	1.0	0.0	
679.0	PLEISTOCENE		CLAY	27.4	1.0	
651.6	PLEISTOCENE		CLAY, SAND & GRAVEL	17.0	28.4	
634.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.1	45.4	BROKEN
632.5	CARBONDALE	SPRINGFIELD	COAL	3.5	47.5	BROKEN

MAPID: 05786424000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143902

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699981

DATE COLLECTED: 11 / 5 / 1980

SURFACE ELEVATION (FT.): 680.4 LOGGED (FT.): 52.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28973

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.4	PLEISTOCENE		SOIL	1.0	0.0	
679.4	PLEISTOCENE		CLAY	24.3	1.0	YELLOW
655.1	PLEISTOCENE		CLAY	10.9	25.3	GRAY
644.2	CARBONDALE		GRAY SHALE	10.4	36.2	
633.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	46.6	
632.6	CARBONDALE	SPRINGFIELD	COAL	3.4	47.8	
629.2	CARBONDALE		UNDERCLAY	0.8	51.2	

MAPID: 05786425000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143514

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700033

DATE COLLECTED: 11 / 5 / 1980

SURFACE ELEVATION (FT.): 682.9 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28974

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.9	PLEISTOCENE		SOIL	1.0	0.0	
681.9	PLEISTOCENE		CLAY	25.3	1.0	YELLOW
656.6	PLEISTOCENE		CLAY	26.9	26.3	GRAY
629.7	CARBONDALE		GRAY SHALE	3.0	53.2	
626.7	CARBONDALE		DARK SHALE	2.0	56.2	
624.7	CARBONDALE		LIMESTONE	1.8	58.2	

MAPID: 05786426000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143476

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699818

DATE COLLECTED: 11 / 6 / 1980

SURFACE ELEVATION (FT.): 681.1 LOGGED (FT.): 51.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28975

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.1	PLEISTOCENE		SOIL	1.0	0.0	
680.1	PLEISTOCENE		CLAY	21.5	1.0	
658.6	PLEISTOCENE		CLAY & GRAVEL	6.0	22.5	
652.6	CARBONDALE		GRAY SHALE	15.2	28.5	
637.4	CARBONDALE	ST. DAVID	LIMESTONE	0.5	43.7	
636.9	CARBONDALE	TURNER MINE	SHALE	2.4	44.2	
634.5	CARBONDALE	SPRINGFIELD	COAL	3.5	46.6	
631.0	CARBONDALE		UNDERCLAY	0.9	50.1	

MAPID: 05786427000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143082

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699953

DATE COLLECTED: 11 / 6 / 1980

SURFACE ELEVATION (FT.): 683.9 LOGGED (FT.): 53.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28976

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.9	PLEISTOCENE		SOIL	1.0	0.0	
682.9	PLEISTOCENE		CLAY	24.4	1.0	YELLOW
658.5	PLEISTOCENE		CLAY	27.6	25.4	GRAY

MAPID: 05786428000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142759

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699869

DATE COLLECTED: 11 / 6 / 1980

SURFACE ELEVATION (FT.): 683.7 LOGGED (FT.): 52.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28977

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.7	PLEISTOCENE		SOIL	1.0	0.0	
682.7	PLEISTOCENE		CLAY	23.2	1.0	YELLOW
659.5	PLEISTOCENE		CLAY	23.0	24.2	GRAY
636.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	47.2	
635.5	CARBONDALE	SPRINGFIELD	COAL	3.2	48.2	
632.3	CARBONDALE		UNDERCLAY	0.6	51.4	

MAPID: 05786429000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142699

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700062

DATE COLLECTED: 11 / 6 / 1980

SURFACE ELEVATION (FT.): 683.5 LOGGED (FT.): 64.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28978

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.5	PLEISTOCENE		SOIL	1.0	0.0	
682.5	PLEISTOCENE		CLAY	24.5	1.0	YELLOW
658.0	PLEISTOCENE		CLAY	38.5	25.5	GRAY

MAPID: 05786430000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142451

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.69986

DATE COLLECTED: 11 / 6 / 1980

SURFACE ELEVATION (FT.): 683.5 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28979

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.5	PLEISTOCENE		SOIL	1.0	0.0	
682.5	PLEISTOCENE		CLAY	24.6	1.0	YELLOW
657.9	PLEISTOCENE		CLAY	33.8	25.6	GRAY
624.1			GRAY SHALE	5.6	59.4	

MAPID: 05786431000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142517

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699578

DATE COLLECTED: 11 / 6 / 1980

SURFACE ELEVATION (FT.): 683.9 LOGGED (FT.): 52.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28980

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.9	PLEISTOCENE		SOIL	1.0	0.0	
682.9	PLEISTOCENE		CLAY	25.7	1.0	YELLOW
657.2	PLEISTOCENE		CLAY	14.4	26.7	GRAY
642.8	CARBONDALE		GRAY SHALE	4.1	41.1	
638.7	CARBONDALE	ST. DAVID	LIMESTONE	0.9	45.2	
637.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	46.1	
636.6	CARBONDALE	SPRINGFIELD	COAL	3.6	47.3	
633.0	CARBONDALE		UNDERCLAY	1.1	50.9	

MAPID: 05786432000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142202

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699591

DATE COLLECTED: 11 / 6 / 1980

SURFACE ELEVATION (FT.): 685.2 LOGGED (FT.): 54.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28981

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.2	PLEISTOCENE		SOIL	1.0	0.0	
684.2	PLEISTOCENE		CLAY	32.0	1.0	YELLOW
652.2	PLEISTOCENE		CLAY	13.3	33.0	GRAY
638.9	CARBONDALE		GRAY SHALE	2.1	46.3	
636.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	48.4	
635.4	CARBONDALE	SPRINGFIELD	COAL	3.6	49.8	
631.8	CARBONDALE		UNDERCLAY	0.6	53.4	

MAPID: 05786433000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142048

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.69984

DATE COLLECTED: 11 / 6 / 1980

SURFACE ELEVATION (FT.): 684.7 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28982

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.7	PLEISTOCENE		SOIL	1.0	0.0	
683.7	PLEISTOCENE		CLAY	22.5	1.0	YELLOW
661.2	PLEISTOCENE		CLAY	30.5	23.5	GRAY
630.7			GRAY SHALE	6.0	54.0	

MAPID: 05786434000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141908

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699576

DATE COLLECTED: 11 / 7 / 1980

SURFACE ELEVATION (FT.): 685.2 LOGGED (FT.): 54.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28983

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.2	PLEISTOCENE		SOIL	1.0	0.0	
684.2	PLEISTOCENE		CLAY	24.3	1.0	YELLOW
659.9	PLEISTOCENE		CLAY	16.3	25.3	GRAY
643.6	CARBONDALE		GRAY SHALE	2.4	41.6	SOFT
641.2	CARBONDALE	ST. DAVID	LIMESTONE	0.2	44.0	
641.0	CARBONDALE	TURNER MINE	SHALE	5.2	44.2	
635.8	CARBONDALE	SPRINGFIELD	COAL	3.4	49.4	
632.4	CARBONDALE		UNDERCLAY	1.2	52.8	

MAPID: 05786435000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141605

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699354

DATE COLLECTED: 11 / 6 / 1980

SURFACE ELEVATION (FT.): 685.6 LOGGED (FT.): 54.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28984

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.6	PLEISTOCENE		SOIL	1.0	0.0	
684.6	PLEISTOCENE		CLAY	14.2	1.0	YELLOW
670.4	PLEISTOCENE		CLAY	19.8	15.2	GRAY
650.6	CARBONDALE		GRAY SHALE	11.8	35.0	
638.8	CARBONDALE	ST. DAVID	LIMESTONE	0.2	46.8	
638.6	CARBONDALE	TURNER MINE	SHALE	2.8	47.0	
635.8	CARBONDALE	SPRINGFIELD	COAL	3.4	49.8	
632.4	CARBONDALE		UNDERCLAY	0.8	53.2	

MAPID: 05786436000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141192 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699367 DATE COLLECTED: 11 / 7 / 1980

SURFACE ELEVATION (FT.): 684.0 LOGGED (FT.): 51.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28985 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.0	PLEISTOCENE		SOIL	1.0	0.0	
683.0	PLEISTOCENE		CLAY	13.8	1.0	YELLOW
669.2	PLEISTOCENE		CLAY	26.5	14.8	GRAY
642.7	CARBONDALE		GRAY SHALE	2.7	41.3	
640.0	CARBONDALE	ST. DAVID	LIMESTONE	0.3	44.0	
639.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.6	44.3	
637.1	CARBONDALE	SPRINGFIELD	COAL	3.5	46.9	
633.6	CARBONDALE		UNDERCLAY	0.6	50.4	

MAPID: 05786437000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141093 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700388 DATE COLLECTED: 11 / 10 / 1980

SURFACE ELEVATION (FT.): 683.5 LOGGED (FT.): 53.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28989 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.5	PLEISTOCENE			1.0	0.0	
682.5	PLEISTOCENE		CLAY	18.4	1.0	YELLOW
664.1	PLEISTOCENE		CLAY	9.2	19.4	GRAY
654.9	CARBONDALE		DARK SHALE	17.1	28.6	
637.8	CARBONDALE	ST. DAVID	LIMESTONE	0.2	45.7	
637.6	CARBONDALE	TURNER MINE	DARK SHALE	2.8	45.9	
634.8	CARBONDALE	SPRINGFIELD	COAL	3.1	48.7	
631.7	CARBONDALE		UNDERCLAY	1.2	51.8	

MAPID: 05786438000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141447 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700295 DATE COLLECTED: 11 / 10 / 1980

SURFACE ELEVATION (FT.): 684.5 LOGGED (FT.): 53.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28990 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.5	PLEISTOCENE		SOIL	1.0	0.0
683.5	PLEISTOCENE		CLAY	22.4	1.0
661.1	PLEISTOCENE		CLAY	5.6	23.4
655.5	PLEISTOCENE		GRAVEL	5.0	29.0
650.5	PLEISTOCENE		CLAY	12.3	34.0
638.2	CARBONDALE	ST. DAVID	LIMESTONE	0.5	46.3
637.7	CARBONDALE	TURNER MINE	DARK SHALE	1.6	46.8
636.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	48.4
635.0	CARBONDALE	SPRINGFIELD	COAL	3.1	49.5
631.9	CARBONDALE		UNDERCLAY	0.4	52.6

MAPID: 05786439000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14175 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700145 DATE COLLECTED: 11 / 10 / 1980

SURFACE ELEVATION (FT.): 684.5 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28991 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.5	PLEISTOCENE		SOIL	1.0	0.0
683.5	PLEISTOCENE		CLAY	23.4	1.0
660.1	PLEISTOCENE		CLAY & GRAVEL	33.7	24.4
626.4			DARK SHALE	1.9	58.1

MAPID: 05786440000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141828

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700357

DATE COLLECTED: 11 / 10 / 1980

SURFACE ELEVATION (FT.): 683.2 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28992

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.2	PLEISTOCENE		SOIL	1.0	0.0	
682.2	PLEISTOCENE		CLAY	23.2	1.0	YELLOW
659.0	PLEISTOCENE		CLAY	33.2	24.2	GRAY
625.8			LIMESTONE	0.3	57.4	
625.5			GRAY SHALE	2.3	57.7	

MAPID: 05786441000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142033

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700598

DATE COLLECTED: 11 / 10 / 1980

SURFACE ELEVATION (FT.): 678.2 LOGGED (FT.): 53.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28993

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.2	PLEISTOCENE		SOIL	1.0	0.0	
677.2	PLEISTOCENE		CLAY	11.4	1.0	YELLOW
665.8	PLEISTOCENE		CLAY	40.6	12.4	GRAY

MAPID: 05786442000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142187

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700755

DATE COLLECTED: 11 / 10 / 1980

SURFACE ELEVATION (FT.): 677.2 LOGGED (FT.): 46.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28995

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
677.2	PLEISTOCENE		SOIL	1.0	0.0
676.2	PLEISTOCENE		CLAY	18.6	1.0
657.6	PLEISTOCENE		CLAY & GRAVEL	5.8	19.6
651.8	CARBONDALE		GRAY SHALE	12.9	25.4
638.9	CARBONDALE	ST. DAVID	LIMESTONE	0.1	38.3
638.8	CARBONDALE	TURNER MINE	DARK SHALE	1.8	38.4
637.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	40.2
635.9	CARBONDALE	SPRINGFIELD	COAL	3.5	41.3
632.4	CARBONDALE		UNDERCLAY	1.2	44.8

MAPID: 05786443000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142479

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700626

DATE COLLECTED: 11 / 12 / 1980

SURFACE ELEVATION (FT.): 677.6 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28996

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
677.6	PLEISTOCENE		SOIL	1.0	0.0
676.6	PLEISTOCENE		CLAY	16.5	1.0
660.1	PLEISTOCENE		CLAY & GRAVEL	27.5	17.5

MAPID: 05786444000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142702

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.70073

DATE COLLECTED: 11 / 12 / 1980

SURFACE ELEVATION (FT.): 678.3 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28997

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
678.3	PLEISTOCENE		SOIL	1.0	0.0
677.3	PLEISTOCENE		CLAY	14.8	1.0
662.5	PLEISTOCENE		CLAY & GRAVEL	29.2	15.8

MAPID: 05786445000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143113

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700926

DATE COLLECTED: 11 / 12 / 1980

SURFACE ELEVATION (FT.): 673.9 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28998

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
673.9	PLEISTOCENE		SOIL	1.0	0.0	
672.9	PLEISTOCENE		CLAY	13.8	1.0	
659.1	PLEISTOCENE		CLAY, SAND & GRAVEL	30.2	14.8	

MAPID: 05786446000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14393

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.701052

DATE COLLECTED: 11 / 12 / 1980

SURFACE ELEVATION (FT.): 672.7 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29000

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.7	PLEISTOCENE		SOIL	1.0	0.0	
671.7	PLEISTOCENE		CLAY	18.2	1.0	YELLOW
653.5	PLEISTOCENE		CLAY	37.1	19.2	GRAY
616.4			GRAY SHALE	3.7	56.3	

MAPID: 05786447000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144541

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.701338

DATE COLLECTED: 11 / 12 / 1980

SURFACE ELEVATION (FT.): 668.4 LOGGED (FT.): 42.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29001

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.4	PLEISTOCENE		SOIL	1.0	0.0	
667.4	PLEISTOCENE		CLAY & GRAVEL	14.6	1.0	
652.8	PLEISTOCENE		CLAY	24.8	15.6	
628.0	CARBONDALE		GRAY SHALE	1.3	40.4	
626.7	CARBONDALE		LIMESTONE	0.7	41.7	

MAPID: 05786448000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144601

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.701531

DATE COLLECTED: 11 / 12 / 1980

SURFACE ELEVATION (FT.): 665.8 LOGGED (FT.): 29.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29002

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.8	PLEISTOCENE		SOIL	1.0	0.0	
664.8	PLEISTOCENE		CLAY	8.6	1.0	
656.2	PLEISTOCENE		CLAY, SAND & GRAVEL	13.4	9.6	
642.8	CARBONDALE		GRAY SHALE	0.6	23.0	
642.2	CARBONDALE	ST. DAVID	LIMESTONE	0.1	23.6	
642.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	23.7	
640.8	CARBONDALE	SPRINGFIELD	COAL	3.2	25.0	GOOD
637.6	CARBONDALE		UNDERCLAY	0.8	28.2	

MAPID: 05786449000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144967

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.701115

DATE COLLECTED: 11 / 13 / 1980

SURFACE ELEVATION (FT.): 673.1 LOGGED (FT.): 39.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29003

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
673.1	PLEISTOCENE		SOIL	1.0	0.0	
672.1	PLEISTOCENE		CLAY	17.5	1.0	YELLOW
654.6	PLEISTOCENE		CLAY	14.0	18.5	GRAY
640.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	32.5	
639.4	CARBONDALE	SPRINGFIELD	COAL	3.7	33.7	
635.7	CARBONDALE		UNDERCLAY	1.6	37.4	

MAPID: 0578645000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14486 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700851 DATE COLLECTED: 11 / 13 / 1980

SURFACE ELEVATION (FT.): 679.6 LOGGED (FT.): 48.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29004 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.6	PLEISTOCENE		SOIL	1.0	0.0	
678.6	PLEISTOCENE		CLAY	16.6	1.0	YELLOW
662.0	PLEISTOCENE		CLAY	30.4	17.6	GRAY

MAPID: 05786462000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144655 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.70187 DATE COLLECTED: 3 / 31 / 1981

SURFACE ELEVATION (FT.): 670.6 LOGGED (FT.): 39.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29118 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.6	PLEISTOCENE		SOIL	2.0	0.0	
668.6	PLEISTOCENE		CLAY	15.0	2.0	
653.6	CARBONDALE		DARK SHALE	13.1	17.0	
640.5	CARBONDALE	ST. DAVID	LIMESTONE	0.3	30.1	
640.2	CARBONDALE	TURNER MINE	DARK SHALE	2.1	30.4	
638.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	32.5	
637.3	CARBONDALE	SPRINGFIELD	COAL	3.4	33.3	
633.9	CARBONDALE		UNDERCLAY	2.3	36.7	

MAPID: 05786463000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144291

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.701704

DATE COLLECTED: 3 / 31 / 1981

SURFACE ELEVATION (FT.): 669.9 LOGGED (FT.): 38.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29119

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.9	PLEISTOCENE		SOIL	2.0	0.0	
667.9	PLEISTOCENE		CLAY	14.0	2.0	YELLOW
653.9	PLEISTOCENE		CLAY	7.5	16.0	GRAY
646.4	CARBONDALE		DARK SHALE	5.8	23.5	
640.6	CARBONDALE	ST. DAVID	LIMESTONE	0.3	29.3	
640.3	CARBONDALE	TURNER MINE	DARK SHALE	1.4	29.6	
638.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	31.0	
637.8	CARBONDALE	SPRINGFIELD	COAL	3.4	32.1	
634.4	CARBONDALE		UNDERCLAY	2.5	35.5	

MAPID: 05786464000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145106

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.701666

DATE COLLECTED: 4 / 2 / 1981

SURFACE ELEVATION (FT.): 670.4 LOGGED (FT.): 36.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29120

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.4	PLEISTOCENE		SOIL	2.0	0.0	
668.4	PLEISTOCENE		CLAY	14.5	2.0	
653.9	CARBONDALE		DARK SHALE	11.0	16.5	
642.9	CARBONDALE	ST. DAVID	LIMESTONE	0.3	27.5	
642.6	CARBONDALE	TURNER MINE	DARK SHALE	2.3	27.8	
640.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	30.1	
639.2	CARBONDALE	SPRINGFIELD	COAL	3.0	31.2	
636.2	CARBONDALE		UNDERCLAY	1.8	34.2	

MAPID: 05786465000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141262

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.698779

DATE COLLECTED: 8 / 17 / 1945

SURFACE ELEVATION (FT.): 685.3 LOGGED (FT.): 75.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 2074

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.3	PLEISTOCENE		SOIL	1.0	0.0	
684.3	PLEISTOCENE		CLAY	8.6	1.0	
675.7	PLEISTOCENE		SANDY CLAY	16.0	9.6	GRAY
659.7	PLEISTOCENE		SANDY CLAY	3.0	25.6	AND BOULDERS WITH BROKEN COAL
656.7	PLEISTOCENE		CLAY & SHALE	13.4	28.6	
643.3	PLEISTOCENE		CLAY & SHALE	3.6	42.0	WITH BOULDERS
639.7	PLEISTOCENE		SAND/CLAY	14.0	45.6	SHALY
625.7	PLEISTOCENE		SAND	13.0	59.6	GRAY
612.7	CARBONDALE	SPRINGFIELD	COAL	1.0	72.6	
611.7	CARBONDALE		UNDERCLAY	2.0	73.6	

MAPID: 05786466000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143651

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.698777

DATE COLLECTED: 2 / 23 / 1946

SURFACE ELEVATION (FT.): 685.2 LOGGED (FT.): 51.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 2218

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.2	PLEISTOCENE		SOIL	1.0	0.0	
684.2	PLEISTOCENE		SANDY CLAY	25.6	1.0	
658.6	PLEISTOCENE		CLAY	3.0	26.6	AND BOULDERS
655.6	CARBONDALE		GRAY SHALE	5.4	29.6	
650.2	CARBONDALE	TURNER MINE	DARK SHALE	12.1	35.0	
638.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.4	47.1	
637.7	CARBONDALE	SPRINGFIELD	COAL	3.0	47.5	
634.7	CARBONDALE		UNDERCLAY	0.6	50.5	

MAPID: 05786467000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145056 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.701277 DATE COLLECTED: 2 / 18 / 1966

SURFACE ELEVATION (FT.): 663.6 LOGGED (FT.): 28.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 9515 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.6	PLEISTOCENE		UNCONSOLIDATED	8.9	0.0	
654.7	PLEISTOCENE		UNKNOWN	0.6	8.9	COAL
654.1	PLEISTOCENE		UNCONSOLIDATED	3.0	9.5	
651.1	PLEISTOCENE		CLAY & SHALE	9.2	12.5	
641.9	CARBONDALE	TURNER MINE	SHALE	1.1	21.7	
640.8	CARBONDALE	SPRINGFIELD	COAL	3.4	22.8	
637.4	CARBONDALE		UNDERCLAY	1.8	26.2	

MAPID: 05786468000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143987 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.701319 DATE COLLECTED: 2 / 18 / 1966

SURFACE ELEVATION (FT.): 668.8 LOGGED (FT.): 38.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 9516 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.8	PLEISTOCENE		CLAY & SHALE	5.0	0.0	
663.8	PLEISTOCENE		CLAY & SHALE	3.0	5.0	
660.8	PLEISTOCENE		UNCONSOLIDATED	7.3	8.0	
653.5	PLEISTOCENE		CLAY & SHALE	7.9	15.3	
645.6	CARBONDALE		GRAY SHALE	6.0	23.2	
639.6	CARBONDALE	TURNER MINE	SHALE	2.4	29.2	
637.2	CARBONDALE	SPRINGFIELD	COAL	3.4	31.6	
633.8	CARBONDALE		UNDERCLAY	3.0	35.0	

MAPID: 05786469000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143433

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.701046

DATE COLLECTED: 2 / 19 / 1966

SURFACE ELEVATION (FT.): 670.8 LOGGED (FT.): 33.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 9522

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.8	PLEISTOCENE		UNCONSOLIDATED	21.4	0.0	
649.4	CARBONDALE	SPRINGFIELD	COAL	3.0	21.4	TOP ERODED
646.4	CARBONDALE		UNDERCLAY	8.6	24.4	

MAPID: 05786470000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143528

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.700709

DATE COLLECTED: 2 / 21 / 1966

SURFACE ELEVATION (FT.): 680.6 LOGGED (FT.): 49.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 9524

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.6	PLEISTOCENE		UNCONSOLIDATED	49.0	0.0	NO COAL

MAPID: 05786471000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142538

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699167

DATE COLLECTED: 3 / 15 / 1966

SURFACE ELEVATION (FT.): 680.4 LOGGED (FT.): 59.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 9613

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.4	PLEISTOCENE		CLAY & SHALE	38.0	0.0	
642.4	CARBONDALE		GRAY SHALE	5.3	38.0	
637.1	CARBONDALE	TURNER MINE	DARK SHALE	1.7	43.3	
635.4	CARBONDALE	SPRINGFIELD	COAL	0.8	45.0	
634.6	CARBONDALE		SHALE/UNDERCLAY	13.2	45.8	

MAPID: 05786472000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142495

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.698775

DATE COLLECTED: 3 / 8 / 1966

SURFACE ELEVATION (FT.): 683.3 LOGGED (FT.): 69.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 9614

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
683.3	PLEISTOCENE		CLAY & SHALE	32.0	0.0
651.3	PLEISTOCENE		SAND & GRAVEL	3.0	32.0
648.3	PLEISTOCENE		CLAY	15.4	35.0
632.9	PLEISTOCENE		CLAY & SHALE	1.6	50.4
631.3	PLEISTOCENE		BOULDER	1.3	52.0
630.0	PLEISTOCENE		CLAY	15.7	53.3

MAPID: 05786473000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141449

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.698968

DATE COLLECTED: 3 / 14 / 1966

SURFACE ELEVATION (FT.): 684.1 LOGGED (FT.): 54.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 9626

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.1	PLEISTOCENE		CLAY & SHALE	41.6	0.0
642.5	CARBONDALE		GRAY SHALE	5.3	41.6
637.2	CARBONDALE	TURNER MINE	SHALE	2.5	46.9
634.6	CARBONDALE	SPRINGFIELD	COAL	3.2	49.5
631.4	CARBONDALE		UNDERCLAY	1.4	52.7

MAPID: 05786474000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142034

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.69907

DATE COLLECTED: 3 / 15 / 1966

SURFACE ELEVATION (FT.): 684.3 LOGGED (FT.): 54.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 9627

WELL TYPE: Coal Test

COMMENT: .LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.3	PLEISTOCENE		CLAY & SHALE	40.2	0.0
644.1	CARBONDALE		GRAY SHALE	5.2	40.2
638.9	CARBONDALE	TURNER MINE	SHALE	2.3	45.4
636.6	CARBONDALE	SPRINGFIELD	COAL	2.4	47.7
634.2	CARBONDALE		UNDERCLAY	3.9	50.1

MAPID: 05786475000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14369

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699075

DATE COLLECTED: 3 / 16 / 1966

SURFACE ELEVATION (FT.): 680.9 LOGGED (FT.): 54.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 9628

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.9	PLEISTOCENE		CLAY	43.4	0.0
637.5	CARBONDALE	TURNER MINE	SHALE	2.6	43.4
634.9	CARBONDALE	SPRINGFIELD	COAL	3.7	46.0
631.2	CARBONDALE		UNDERCLAY	4.3	49.7

MAPID: 05786476000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143907

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699438

DATE COLLECTED: 3 / 16 / 1966

SURFACE ELEVATION (FT.): 676.9 LOGGED (FT.): 49.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 9629

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
676.9	PLEISTOCENE		CLAY	38.7	0.0
638.2	CARBONDALE	TURNER MINE	SHALE	3.0	38.7
635.2	CARBONDALE	SPRINGFIELD	COAL	3.5	41.7
631.7	CARBONDALE		UNDERCLAY	3.8	45.2

MAPID: 05786477000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143139

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699083

DATE COLLECTED: 3 / 17 / 1966

SURFACE ELEVATION (FT.): 678.6 LOGGED (FT.): 49.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 9631

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
678.6	PLEISTOCENE		CLAY	38.8	0.0
639.8	CARBONDALE	TURNER MINE	SHALE	2.9	38.8
636.9	CARBONDALE	SPRINGFIELD	COAL	3.3	41.7
633.6	CARBONDALE		UNDERCLAY	4.0	45.0

MAPID: 05786478000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143335

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699452

DATE COLLECTED: 3 / 17 / 1966

SURFACE ELEVATION (FT.): 678.1 LOGGED (FT.): 49.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 9633

WELL TYPE: Coal Test

COMMENT: .LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
678.1	PLEISTOCENE		CLAY	40.2	0.0
637.9	CARBONDALE	TURNER MINE	SHALE	2.6	40.2
635.3	CARBONDALE	SPRINGFIELD	COAL	3.4	42.8
631.9	CARBONDALE		UNDERCLAY	2.8	46.2

MAPID: 05786479000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144586

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.69912

DATE COLLECTED: 3 / 17 / 1966

SURFACE ELEVATION (FT.): 679.9 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 9634

WELL TYPE: Coal Test

COMMENT: .LOCATIONS DIG. FROM CO. MAP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
679.9	PLEISTOCENE		CLAY	54.5	0.0
625.4	CARBONDALE		DARK SHALE	1.8	54.5
623.6	CARBONDALE		LIMESTONE	1.7	56.3
621.9	CARBONDALE		ARGILACEOUS SHALE	7.0	58.0

MAPID: 0578648000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142975 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.699757 DATE COLLECTED: 3 / 18 / 1966
SURFACE ELEVATION (FT.): 682.2 LOGGED (FT.): 54.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMEAST 9635 WELL TYPE: Coal Test
COMMENT: LOCATIONS DIG. FROM CO. MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
682.2	PLEISTOCENE		CLAY	44.4	0.0
637.8	CARBONDALE	TURNER MINE	SHALE	2.6	44.4
635.2	CARBONDALE	SPRINGFIELD	COAL	3.3	47.0
631.9	CARBONDALE		UNDERCLAY	3.7	50.3

MAPID: 05791445000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.705998 DATE COLLECTED:
SURFACE ELEVATION (FT.): 684.8 LOGGED (FT.): 59.6 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 983 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.8			UNKNOWN	55.9	0.0
628.9	CARBONDALE	SPRINGFIELD	COAL	3.7	55.9

MAPID: 05791457000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.705998 DATE COLLECTED: 11 / 21 / 1975
SURFACE ELEVATION (FT.): 705.3 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 23980 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
705.3	PLEISTOCENE		CLAY	24.0	0.0
681.3	CARBONDALE		SANDSTONE	3.2	24.0
678.1	CARBONDALE		SHALE	42.4	27.2
635.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	69.6
635.3	CARBONDALE	TURNER MINE	SHALE	2.8	70.0
632.5	CARBONDALE	SPRINGFIELD	COAL	3.5	72.8
629.0	CARBONDALE		SHALE/UNDERCLAY	3.7	76.3

MAPID: 05791458000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998 DATE COLLECTED: 11 / 21 / 1975

SURFACE ELEVATION (FT.): 693.3 LOGGED (FT.): 64.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23981 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
693.3	PLEISTOCENE		UNCONSOLIDATED	31.6	0.0
661.7	CARBONDALE		SHALE	3.1	31.6
658.6	CARBONDALE		SANDSTONE	0.5	34.7
658.1	CARBONDALE		SHALE	19.8	35.2
638.3	CARBONDALE	ST. DAVID	LIMESTONE	0.5	55.0
637.8	CARBONDALE	TURNER MINE	SHALE	2.8	55.5
635.0	CARBONDALE	SPRINGFIELD	COAL	3.7	58.3
631.3	CARBONDALE		SHALE/UNDERCLAY	2.0	62.0

MAPID: 05791679000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998 DATE COLLECTED: 3 / 7 / 1966

SURFACE ELEVATION (FT.): 681.9 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9597 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.9	PLEISTOCENE		SHALEY CLAYSTONE	31.8	0.0
650.1	CARBONDALE		GRAY SHALE	15.7	31.8
634.4	CARBONDALE	ST. DAVID	LIMESTONE	0.5	47.5
633.9	CARBONDALE	TURNER MINE	SHALE	2.9	48.0
631.0	CARBONDALE	SPRINGFIELD	COAL	3.5	50.9
627.5	CARBONDALE		UNDERCLAY	0.6	54.4

MAPID: 0579168000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998

DATE COLLECTED: 3 / 0 / 1966

SURFACE ELEVATION (FT.): 683.5 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9608

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
683.5	PLEISTOCENE		SHALEY CLAYSTONE	57.0	0.0
626.5			LIMESTONE	5.0	57.0
621.5			ARGILACEOUS SHALE	18.0	62.0

MAPID: 05791681000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998

DATE COLLECTED: 3 / 9 / 1966

SURFACE ELEVATION (FT.): 685.2 LOGGED (FT.): 61.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9609

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.2	PLEISTOCENE		SHALEY CLAYSTONE	61.0	0.0

MAPID: 05791682000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998

DATE COLLECTED: 3 / 10 / 1966

SURFACE ELEVATION (FT.): 682.8 LOGGED (FT.): 59.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9617

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
682.8	PLEISTOCENE		SHALEY CLAYSTONE	32.0	0.0
650.8	CARBONDALE		LIMESTONE	4.4	32.0
646.4	CARBONDALE		ARGILACEOUS SHALE	13.6	36.4
632.8	CARBONDALE	TURNER MINE	SHALE	2.3	50.0
630.5	CARBONDALE	SPRINGFIELD	COAL	3.6	52.3
626.9	CARBONDALE		UNDERCLAY	3.1	55.9

MAPID: 05791683000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998

DATE COLLECTED: 3 / 11 / 1966

SURFACE ELEVATION (FT.): 682.9 LOGGED (FT.): 54.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9618

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
682.9	PLEISTOCENE		SHALEY CLAYSTONE	35.9	0.0
647.0	CARBONDALE		GRAY SHALE	10.8	35.9
636.2	CARBONDALE	TURNER MINE	SHALE	2.5	46.7
633.7	CARBONDALE	SPRINGFIELD	COAL	3.5	49.2
630.2	CARBONDALE		UNDERCLAY	1.3	52.7

MAPID: 05791693000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998

DATE COLLECTED: 12 / 2 / 1975

SURFACE ELEVATION (FT.): 685.6 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24400

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.6	PLEISTOCENE		UNCONSOLIDATED	70.0	0.0

MAPID: 05791723000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998

DATE COLLECTED: 12 / 19 / 1951

SURFACE ELEVATION (FT.): 638.8 LOGGED (FT.): 61.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 5732

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
638.8	PLEISTOCENE		SOIL	1.0	0.0
637.8	PLEISTOCENE		CLAY	21.3	1.0
616.5	PLEISTOCENE			3.0	22.3
613.5	CARBONDALE		GRAY SHALE	11.4	25.3
602.1	CARBONDALE		DARK SHALE	19.2	36.7
582.9	CARBONDALE	ST. DAVID	LIMESTONE	0.3	55.9
582.6	CARBONDALE	SPRINGFIELD	COAL	3.9	56.2
578.7	CARBONDALE		UNDERCLAY	1.0	60.1

MAPID: 05791724000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998 DATE COLLECTED: 12 / 20 / 1951

SURFACE ELEVATION (FT.): 680.2 LOGGED (FT.): 54.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 5733 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.2	PLEISTOCENE		SOIL	1.0	0.0
679.2	PLEISTOCENE		CLAY	18.9	1.0
660.3	PLEISTOCENE			5.1	19.9
655.2	PLEISTOCENE		SAND & GRAVEL	3.9	25.0
651.3	CARBONDALE		GRAY SANDSTONE	3.0	28.9
648.3	CARBONDALE		GRAY SHALE	8.0	31.9
640.3	CARBONDALE		DARK SHALE	8.7	39.9
631.6	CARBONDALE	ST. DAVID	LIMESTONE	1.0	48.6
630.6	CARBONDALE	SPRINGFIELD		3.8	49.6
626.8	CARBONDALE		UNDERCLAY	1.0	53.4

MAPID: 05791727000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998 DATE COLLECTED: 1 / 21 / 1959

SURFACE ELEVATION (FT.): 693.4 LOGGED (FT.): 75.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6524 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
693.4	PLEISTOCENE		SOIL	1.0	0.0
692.4	PLEISTOCENE		CLAY	21.1	1.0
671.3	PLEISTOCENE			4.8	22.1
666.5	PLEISTOCENE		CLAY	0.9	26.9 BOULD
665.6	PLEISTOCENE		CLAY	17.8	27.8
647.8	CARBONDALE		GRAY SHALE	22.5	45.6
625.3	CARBONDALE	TURNER MINE	DARK SHALE	1.0	68.1
624.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	69.1
622.4	CARBONDALE	SPRINGFIELD		3.8	71.0
618.6	CARBONDALE		UNDERCLAY	1.0	74.8

MAPID: 05791735000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998 DATE COLLECTED: 11 / 9 / 1944

SURFACE ELEVATION (FT.): 704.4 LOGGED (FT.): 72.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1603 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.4	PLEISTOCENE		SOIL	1.0	0.0	
703.4	PLEISTOCENE		CLAY	18.0	1.0	
685.4	PLEISTOCENE			7.0	19.0	
678.4	PLEISTOCENE		SAND	1.4	26.0	
677.0	PLEISTOCENE		CLAY	8.6	27.4	
668.4	CARBONDALE		GRAY SHALE	4.4	36.0	
664.0	CARBONDALE		LIMESTONE	1.2	40.4	
662.8	CARBONDALE		GRAY SHALE	3.8	41.6	
659.0	CARBONDALE		GRAY SHALE	10.6	45.4	
648.4	CARBONDALE		DARK SHALE	10.2	56.0	
638.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	66.2	
637.1	CARBONDALE	SPRINGFIELD	COAL	4.2	67.3	HARD
632.9	CARBONDALE		UNDERCLAY	1.1	71.5	

MAPID: 05791736000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998 DATE COLLECTED: 11 / 10 / 1944

SURFACE ELEVATION (FT.): 674.1 LOGGED (FT.): 49.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1604 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.1	PLEISTOCENE		SOIL	2.0	0.0	
672.1	PLEISTOCENE		CLAY	13.0	2.0	
659.1	PLEISTOCENE			5.0	15.0	
654.1	PLEISTOCENE		CLAY, SAND & GRAVEL	6.0	20.0	GRAY
648.1	PLEISTOCENE		SAND & GRAVEL	10.0	26.0	
638.1	CARBONDALE		DARK SHALE	5.5	36.0	
632.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.1	41.5	
630.5	CARBONDALE		UNKNOWN	0.6	43.6	
629.9	CARBONDALE	SPRINGFIELD	COAL	4.0	44.2	
625.9	CARBONDALE		UNDERCLAY	1.3	48.2	

MAPID: 05791737000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998

DATE COLLECTED: 3 / 31 / 1945

SURFACE ELEVATION (FT.): 686.3 LOGGED (FT.): 60.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1940

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
686.3	PLEISTOCENE		SOIL	1.0	0.0	
685.3	PLEISTOCENE		CLAY	6.0	1.0	
679.3	PLEISTOCENE			15.8	7.0	
663.5	PLEISTOCENE		CLAY	9.9	22.8	
653.6	CARBONDALE		GRAY SHALE	19.9	32.7	
633.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	52.6	
631.4	CARBONDALE	SPRINGFIELD		3.8	54.9	
627.6	CARBONDALE		UNDERCLAY	2.0	58.7	

MAPID: 05791738000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998

DATE COLLECTED: 5 / 13 / 1945

SURFACE ELEVATION (FT.): 677.6 LOGGED (FT.): 46.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1985

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.6	PLEISTOCENE		SOIL	12.0	0.0	AND YEL CLAY
665.6	PLEISTOCENE			2.0	12.0	YEL
663.6	PLEISTOCENE			4.0	14.0	GRAY
659.6	PLEISTOCENE		SAND & GRAVEL	13.5	18.0	
646.1	CARBONDALE		SANDSTONE	4.5	31.5	
641.6	CARBONDALE		DARK SHALE	2.6	36.0	
639.0	CARBONDALE	ST. DAVID	LIMESTONE	1.6	38.6	
637.4	CARBONDALE	TURNER MINE	DARK SHALE	1.6	40.2	
635.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	41.8	
634.7	CARBONDALE	SPRINGFIELD	COAL	2.8	42.9	
631.9	CARBONDALE		UNDERCLAY	1.1	45.7	

MAPID: 05791739000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998 DATE COLLECTED:

SURFACE ELEVATION (FT.): 695.8 LOGGED (FT.): 69.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2055 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.8	PLEISTOCENE		SOIL	20.0	0.0	AND YEL CLAY
675.8	PLEISTOCENE		CLAY	10.0	20.0	
665.8	CARBONDALE		GRAY SHALE	12.5	30.0	
653.3	CARBONDALE		DARK SHALE	18.0	42.5	
635.3	CARBONDALE		BLACK SHALE	1.5	60.5	
633.8	CARBONDALE	SPRINGFIELD	CLAY & COAL	0.8	62.0	
633.0	CARBONDALE	SPRINGFIELD	COAL	2.2	62.8	
630.8	CARBONDALE	SPRINGFIELD	CLAY & COAL	0.2	65.0	DRILLER REPORTS WHITE TOP
630.6	CARBONDALE	SPRINGFIELD	COAL	0.8	65.2	
629.8	CARBONDALE	SPRINGFIELD	UNDERCLAY	3.2	66.0	

MAPID: 05791754000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998 DATE COLLECTED: 3 / 12 / 1946

SURFACE ELEVATION (FT.): 667.7 LOGGED (FT.): 33.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2248 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.7	PLEISTOCENE		SOIL	1.0	0.0	
666.7	PLEISTOCENE		SAND/CLAY	19.6	1.0	AND BOULDERS
647.1	CARBONDALE		DARK SHALE	5.4	20.6	
641.7	CARBONDALE		ROCK	0.6	26.0	
641.1	CARBONDALE	TURNER MINE	DARK SHALE	1.8	26.6	
639.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	28.4	
638.6	CARBONDALE	SPRINGFIELD	COAL	3.1	29.1	
635.5	CARBONDALE		UNDERCLAY	0.8	32.2	

MAPID: 05791755000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998

DATE COLLECTED: 2 / 8 / 1946

SURFACE ELEVATION (FT.): 677.2 LOGGED (FT.): 41.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2249

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
677.2	PLEISTOCENE		SOIL	1.0	0.0
676.2	PLEISTOCENE		CLAY	24.3	1.0
651.9	CARBONDALE		DARK SHALE	10.0	25.3
641.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	35.3
640.4	CARBONDALE	SPRINGFIELD		3.4	36.8
637.0	CARBONDALE		UNDERCLAY	0.9	40.2

MAPID: 05791758000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998

DATE COLLECTED: 3 / 12 / 1946

SURFACE ELEVATION (FT.): 668.0 LOGGED (FT.): 37.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2255

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
668.0	PLEISTOCENE		SOIL	1.0	0.0
667.0	PLEISTOCENE		CLAY	15.3	1.0
651.7	CARBONDALE		GRAY SHALE	15.7	16.3
636.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	32.0
634.5	CARBONDALE	SPRINGFIELD		3.4	33.5
631.1	CARBONDALE		UNDERCLAY	0.5	36.9

MAPID: 05791759000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998

DATE COLLECTED: 3 / 13 / 1946

SURFACE ELEVATION (FT.): 652.9 LOGGED (FT.): 25.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2257

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
652.9	PLEISTOCENE		SOIL	1.0	0.0
651.9	PLEISTOCENE		CLAY	11.3	1.0
640.6	CARBONDALE		GRAY SHALE	8.7	12.3
631.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	21.0
630.9	CARBONDALE	SPRINGFIELD		3.0	22.0
627.9	CARBONDALE		UNDERCLAY	0.7	25.0

MAPID: 05791799000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998

DATE COLLECTED: 3 / 4 / 1966

SURFACE ELEVATION (FT.): 652.3 LOGGED (FT.): 28.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9590

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
652.3	PLEISTOCENE		SHALEY CLAYSTONE	24.6	0.0
627.7			ARGILACEOUS SHALE	3.4	24.6

MAPID: 05791801000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705998

DATE COLLECTED:

SURFACE ELEVATION (FT.): 678.0 LOGGED (FT.): 71.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 192

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
678.0			UNKNOWN	71.0	0.0 NO COAL

MAPID: 05791802000C **VERSION:** 1 **PROJECT:** NCRDS 00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 3 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.148138 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.705998 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 651.0 **LOGGED (FT.):** 29.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 193 **WELL TYPE:** Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.0			UNKNOWN	29.0	0.0	

MAPID: 05791803000C **VERSION:** 1 **PROJECT:** NCRDS 00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 3 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.148138 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.705998 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 685.0 **LOGGED (FT.):** 57.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 194 **WELL TYPE:** Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.0			UNKNOWN	57.0	0.0	NO COAL

MAPID: 05791772000C **VERSION:** 1 **PROJECT:** NCRDS 00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 4 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.167076 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.705996 **DATE COLLECTED:** 4 / 2 / 1946
SURFACE ELEVATION (FT.): 669.2 **LOGGED (FT.):** 26.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2282 **WELL TYPE:** Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.2	PLEISTOCENE		SOIL	1.0	0.0	
668.2	PLEISTOCENE		CLAY	20.3	1.0	
647.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	21.3	
646.9	CARBONDALE	SPRINGFIELD		3.4	22.3	
643.5	CARBONDALE		UNDERCLAY	1.0	25.7	

MAPID: 05791773000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167076 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705996 DATE COLLECTED: 4 / 2 / 1946

SURFACE ELEVATION (FT.): 677.6 LOGGED (FT.): 41.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2284 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
677.6	PLEISTOCENE		SOIL	1.0	0.0
676.6	PLEISTOCENE		CLAY	22.3	1.0
654.3	CARBONDALE		GRAY SHALE	11.7	23.3
642.6	CARBONDALE	ST. DAVID	LIMESTONE	1.5	35.0
641.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	36.5
640.1	CARBONDALE	SPRINGFIELD		3.4	37.5
636.7	CARBONDALE		UNDERCLAY	0.7	40.9

MAPID: 05791774000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167076 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705996 DATE COLLECTED: 4 / 4 / 1946

SURFACE ELEVATION (FT.): 681.6 LOGGED (FT.): 49.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2290 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.6	PLEISTOCENE		SOIL	1.0	0.0
680.6	PLEISTOCENE		CLAY	25.3	1.0
655.3	CARBONDALE		GRAY SHALE	12.6	26.3
642.7	CARBONDALE		DARK SHALE	4.0	38.9
638.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	42.9
636.7	CARBONDALE	SPRINGFIELD		3.6	44.9
633.1	CARBONDALE		UNDERCLAY	0.5	48.5

MAPID: 05791775000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167076

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705996

DATE COLLECTED: 4 / 4 / 1946

SURFACE ELEVATION (FT.): 653.7 LOGGED (FT.): 35.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2294

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.7	PLEISTOCENE		SOIL	1.0	0.0	
652.7	PLEISTOCENE		CLAY	14.5	1.0	
638.2	PLEISTOCENE		SAND	19.8	15.5	

MAPID: 05791776000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167076

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705996

DATE COLLECTED: 4 / 2 / 1946

SURFACE ELEVATION (FT.): 671.0 LOGGED (FT.): 29.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2299

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.0	PLEISTOCENE		SOIL	1.0	0.0	
670.0	PLEISTOCENE		CLAY	22.3	1.0	
647.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	23.3	
646.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	24.5	
645.5	CARBONDALE	SPRINGFIELD		3.4	25.5	
642.1	CARBONDALE		UNDERCLAY	0.9	28.9	

MAPID: 05791785000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167076

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705996

DATE COLLECTED: 3 / 30 / 1946

SURFACE ELEVATION (FT.): 664.5 LOGGED (FT.): 46.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2309

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.5	PLEISTOCENE		SOIL	18.0	0.0	
646.5	PLEISTOCENE		SAND & GRAVEL	6.0	18.0	
640.5	PLEISTOCENE		CLAY	0.5	24.0	
640.0	PLEISTOCENE		CLAY	1.5	24.5	AND COAL TRACE
638.5	PLEISTOCENE		CLAY	2.2	26.0	
636.3	PLEISTOCENE		CLAY	2.2	28.2	BOULD
634.1	PLEISTOCENE		CLAY	12.6	30.4	
621.5	PLEISTOCENE		CLAY	2.0	43.0	BOULD: BROKEN
619.5	PLEISTOCENE		CLAY	1.3	45.0	

MAPID: 05791786000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167076

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705996

DATE COLLECTED: 4 / 2 / 1946

SURFACE ELEVATION (FT.): 671.3 LOGGED (FT.): 32.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2310

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.3	PLEISTOCENE		SOIL	16.0	0.0	
655.3	PLEISTOCENE		CLAY	4.5	16.0	YEL
650.8	PLEISTOCENE		CLAY	2.9	20.5	GRAY
647.9	PLEISTOCENE		CLAY	0.4	23.4	BOULD
647.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.4	23.8	
645.1	CARBONDALE	SPRINGFIELD	COAL	3.8	26.2	
641.3	CARBONDALE		UNDERCLAY	2.0	30.0	

MAPID: 05791787000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167076

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705996

DATE COLLECTED: 4 / 3 / 1946

SURFACE ELEVATION (FT.): 669.0 LOGGED (FT.): 28.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2311

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.0	PLEISTOCENE		SOIL	18.0	0.0	
651.0	PLEISTOCENE		CLAY	2.4	18.0	
648.6	PLEISTOCENE		CLAY	2.2	20.4	
646.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	22.6	
645.5	CARBONDALE	SPRINGFIELD	COAL	3.9	23.5	
641.6	CARBONDALE		UNDERCLAY	1.4	27.4	

MAPID: 05791788000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167076

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705996

DATE COLLECTED: 4 / 3 / 1946

SURFACE ELEVATION (FT.): 656.7 LOGGED (FT.): 26.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2312

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
656.7	PLEISTOCENE		SOIL	15.0	0.0	
641.7	PLEISTOCENE		CLAY	4.5	15.0	
637.2	PLEISTOCENE		CLAY	0.5	19.5	WITH COAL
636.7	PLEISTOCENE		CLAY	1.0	20.0	
635.7	PLEISTOCENE		SAND & GRAVEL	3.0	21.0	
632.7	PLEISTOCENE		CLAY	2.7	24.0	

MAPID: 05791789000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167076

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705996

DATE COLLECTED: 4 / 3 / 1946

SURFACE ELEVATION (FT.): 654.3 LOGGED (FT.): 36.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2313

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.3	PLEISTOCENE		SOIL	16.0	0.0	
638.3	PLEISTOCENE		SAND/CLAY	4.0	16.0	
634.3	PLEISTOCENE		CLAY & GRAVEL	2.5	20.0	
631.8	PLEISTOCENE		SAND & GRAVEL	3.5	22.5	AND COAL TRACE
628.3	PLEISTOCENE		SAND & GRAVEL	4.0	26.0	AND ROCK
624.3	PLEISTOCENE		CLAY	4.0	30.0	BOULD; SANDSTONE
620.3	PLEISTOCENE		CLAY	2.0	34.0	

MAPID: 05791790000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167076

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705996

DATE COLLECTED: 4 / 4 / 1946

SURFACE ELEVATION (FT.): 658.3 LOGGED (FT.): 36.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2314

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
658.3	PLEISTOCENE		SOIL	15.0	0.0	
643.3	PLEISTOCENE		SAND/CLAY	3.0	15.0	YEL
640.3	PLEISTOCENE		SAND/CLAY	2.0	18.0	GRAY
638.3	PLEISTOCENE		CLAY & GRAVEL	4.2	20.0	GRAY
634.1	PLEISTOCENE		CLAY	0.8	24.2	AND COAL
633.3	PLEISTOCENE		CLAY	2.2	25.0	AND ROCK
631.1	PLEISTOCENE		CLAY	2.8	27.2	
628.3			GRAY SHALE	6.0	30.0	

MAPID: 05791791000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167076

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705996

DATE COLLECTED: 4 / 4 / 1946

SURFACE ELEVATION (FT.): 666.9 LOGGED (FT.): 28.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2315

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.9	PLEISTOCENE		SOIL	12.0	0.0	
654.9	PLEISTOCENE		CLAY & GRAVEL	8.0	12.0	
646.9	PLEISTOCENE		SAND & GRAVEL	1.4	20.0	
645.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	21.4	
644.6	CARBONDALE	SPRINGFIELD	COAL	3.9	22.3	
640.7	CARBONDALE		UNDERCLAY	1.8	26.2	

MAPID: 05791792000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167076

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705996

DATE COLLECTED: 4 / 0 / 1946

SURFACE ELEVATION (FT.): 663.7 LOGGED (FT.): 28.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2316

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.7	PLEISTOCENE		SOIL	12.0	0.0	
651.7	PLEISTOCENE		CLAY & GRAVEL	8.0	12.0	
643.7	PLEISTOCENE		SAND & GRAVEL	1.4	20.0	
642.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	21.4	
641.4	CARBONDALE	SPRINGFIELD	COAL	3.9	22.3	HARD
637.5	CARBONDALE		UNDERCLAY	1.8	26.2	

MAPID: 05791793000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167076 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705996 DATE COLLECTED: 4 / 4 / 1946

SURFACE ELEVATION (FT.): 661.7 LOGGED (FT.): 33.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2317 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.7	PLEISTOCENE		SOIL	12.0	0.0	
649.7	PLEISTOCENE		CLAY	6.0	12.0	
643.7	PLEISTOCENE		CLAY & GRAVEL	7.3	18.0	
636.4	PLEISTOCENE		UNCLASSIFIED	0.7	25.3	BROKEN COAL
635.7	PLEISTOCENE		CLAY & GRAVEL	1.6	26.0	
634.1	PLEISTOCENE		CLAY	0.6	27.6	AND BROKEN COAL
633.5	PLEISTOCENE		SAND & GRAVEL	2.8	28.2	AND COAL
630.7	PLEISTOCENE		CLAY	2.0	31.0	

MAPID: 05791750000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.205384 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705974 DATE COLLECTED: 7 / 22 / 1976

SURFACE ELEVATION (FT.): 709.6 LOGGED (FT.): 102.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25668 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIGITIZED FROM CO MAP 1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.6	PLEISTOCENE			25.5	0.0	
684.1	PLEISTOCENE		CLAY, SAND & GRAVEL	9.5	25.5	
674.6	CARBONDALE	HERRIN	COAL	3.4	35.0	SOFT; TOP ERODED
671.2	CARBONDALE		UNDERCLAY	1.6	38.4	
669.6	CARBONDALE		LIMESTONE	3.0	40.0	
666.6	CARBONDALE		GRAY SHALE	11.1	43.0	
655.5	CARBONDALE		SHALE & SANDSTONE	21.9	54.1	
633.6	CARBONDALE		DARK SHALE	17.8	76.0	
615.8	CARBONDALE	ST. DAVID	LIMESTONE	0.6	93.8	
615.2	CARBONDALE	TURNER MINE	DARK SHALE	1.0	94.4	
614.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	95.4	
612.7	CARBONDALE	SPRINGFIELD	COAL	3.6	96.9	
609.1	CARBONDALE		UNDERCLAY	1.5	100.5	

MAPID: 05791767000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167315

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691287

DATE COLLECTED: 3 / 25 / 1946

SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 75.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2272

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.0	PLEISTOCENE		SOIL	1.0	0.0	
674.0	PLEISTOCENE		SAND/CLAY	28.6	1.0	AND BOULDERS YEL
645.4	PLEISTOCENE		SAND/CLAY	20.7	29.6	AND BOULDERS GRAY
624.7	PLEISTOCENE		CLAY	5.0	50.3	
619.7	PLEISTOCENE		UNKNOWN	10.0	55.3	SANDY
609.7			SAND	5.7	65.3	AND ROCK
604.0			UNKNOWN	4.3	71.0	

MAPID: 05791768000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167315

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691287

DATE COLLECTED: 3 / 25 / 1946

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 75.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2274

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0	PLEISTOCENE		SOIL	1.0	0.0	
669.0	PLEISTOCENE		SAND/CLAY	20.6	1.0	AND BOULDERS
648.4	PLEISTOCENE		UNKNOWN	4.4	21.6	SANDY
644.0			ROCK	2.5	26.0	
641.5			GRAY SHALE	46.8	28.5	

MAPID: 05791770000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167315

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691287

DATE COLLECTED: 3 / 26 / 1946

SURFACE ELEVATION (FT.): 651.0 LOGGED (FT.): 65.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2278

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.0	PLEISTOCENE		SOIL	1.0	0.0	
650.0	PLEISTOCENE		SAND/CLAY	28.5	1.0	AND BOULDERS
621.5	PLEISTOCENE		SAND/CLAY	35.8	29.5	

MAPID: 05791771000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167315

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691287

DATE COLLECTED: 3 / 27 / 1946

SURFACE ELEVATION (FT.): 658.0 LOGGED (FT.): 65.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2280

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
658.0	PLEISTOCENE		SOIL	1.0	0.0	
657.0	PLEISTOCENE		SAND/CLAY	13.6	1.0	AND BOULDERS
643.4	PLEISTOCENE		UNCLASSIFIED	0.4	14.6	COAL TRACE
643.0	PLEISTOCENE		SAND/CLAY	2.6	15.0	
640.4	PLEISTOCENE		SAND/CLAY	20.7	17.6	AND BOULDERS
619.7			GRAY SANDSTONE	4.7	38.3	
615.0			UNKNOWN	22.3	43.0	SANDY

MAPID: 05791777000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167315

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691287

DATE COLLECTED: 3 / 21 / 1946

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 76.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2300

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0	PLEISTOCENE		SOIL	20.0	0.0	
650.0	PLEISTOCENE		SAND/CLAY	3.0	20.0	YEL
647.0	PLEISTOCENE		SAND/CLAY	6.0	23.0	GRAY
641.0	PLEISTOCENE		CLAY & GRAVEL	4.1	29.0	
636.9	PLEISTOCENE		CLAY	3.4	33.1	
633.5	PLEISTOCENE		CLAY	1.0	36.5	AND ROCK
632.5	PLEISTOCENE		CLAY	0.9	37.5	
631.6	PLEISTOCENE		CLAY & GRAVEL	2.6	38.4	
629.0	PLEISTOCENE		CLAY	5.0	41.0	
624.0	PLEISTOCENE		CLAY & GRAVEL	8.0	46.0	
616.0	PLEISTOCENE		CLAY	17.0	54.0	
599.0	PLEISTOCENE			5.5	71.0	AND ROCK

MAPID: 05791778000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167315

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691287

DATE COLLECTED: 4 / 22 / 1946

SURFACE ELEVATION (FT.): 667.0 LOGGED (FT.): 75.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2301

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.0	PLEISTOCENE		SOIL	14.0	0.0	
653.0	PLEISTOCENE		CLAY & GRAVEL	8.3	14.0	
644.7	PLEISTOCENE		CLAY & GRAVEL	8.7	22.3	GRAY
636.0	PLEISTOCENE		CLAY	0.6	31.0	BOULD
635.4	PLEISTOCENE		CLAY	0.7	31.6	W/COAL
634.7	PLEISTOCENE		CLAY, SAND & GRAVEL	3.0	32.3	
631.7	PLEISTOCENE		CLAY	10.0	35.3	
621.7	PLEISTOCENE		CLAY	5.7	45.3	BLUE
616.0	PLEISTOCENE		CLAY	14.3	51.0	GRAY

MAPID: 05791779000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167315

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691287

DATE COLLECTED: 3 / 23 / 1946

SURFACE ELEVATION (FT.): 658.0 LOGGED (FT.): 75.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2302

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
658.0	PLEISTOCENE		SOIL	20.0	0.0	
638.0	PLEISTOCENE		CLAY & GRAVEL	2.0	20.0	
636.0	PLEISTOCENE		CLAY	0.7	22.0	BOULD
635.3	PLEISTOCENE		SAND & GRAVEL	2.7	22.7	
632.6	PLEISTOCENE		SAND & GRAVEL	7.6	25.4	
625.0	PLEISTOCENE		CLAY	2.2	33.0	GREEN
622.8	PLEISTOCENE		CLAY	40.2	35.2	GRAY

MAPID: 0579178000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167315

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691287

DATE COLLECTED: 3 / 25 / 1946

SURFACE ELEVATION (FT.): 651.0 LOGGED (FT.): 75.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2303

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.0	PLEISTOCENE		SOIL	18.0	0.0	
633.0	PLEISTOCENE		CLAY & GRAVEL	2.0	18.0	
631.0	PLEISTOCENE		CLAY	5.6	20.0	AND COAL TRACES
625.4	PLEISTOCENE		CLAY	1.4	25.6	
624.0	PLEISTOCENE		SAND/CLAY	15.5	27.0	
608.5	PLEISTOCENE		CLAY	1.3	42.5	BOULD
607.2	PLEISTOCENE		SAND & GRAVEL	6.2	43.8	
601.0	PLEISTOCENE		SAND	25.4	50.0	

MAPID: 05791781000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167315

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691287

DATE COLLECTED: 3 / 26 / 1946

SURFACE ELEVATION (FT.): 657.0 LOGGED (FT.): 76.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2304

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
657.0	PLEISTOCENE		SOIL	18.0	0.0	
639.0	PLEISTOCENE		CLAY & GRAVEL	18.0	18.0	
621.0	PLEISTOCENE		CLAY	10.0	36.0	GRAY
611.0	PLEISTOCENE		CLAY	16.0	46.0	SOFT GRAY
595.0			SHALE	14.0	62.0	

MAPID: 05791782000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167315

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691287

DATE COLLECTED: 3 / 27 / 1946

SURFACE ELEVATION (FT.): 652.0 LOGGED (FT.): 61.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2305

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
652.0	PLEISTOCENE		SOIL	15.0	0.0	
637.0	PLEISTOCENE		CLAY & GRAVEL	5.0	15.0	
632.0	PLEISTOCENE		SAND & GRAVEL	5.1	20.0	AND ROCK
626.9	PLEISTOCENE		SAND & GRAVEL	5.9	25.1	
621.0	PLEISTOCENE		SAND/CLAY	10.0	31.0	GRAY
611.0	PLEISTOCENE		SAND/CLAY	15.0	41.0	
596.0			SHALE	5.0	56.0	

MAPID: 05791783000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167315

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691287

DATE COLLECTED: 3 / 27 / 1946

SURFACE ELEVATION (FT.): 630.0 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2306

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.0	PLEISTOCENE		SAND/CLAY	6.0	0.0	YEL
624.0	PLEISTOCENE		SAND/CLAY	20.0	6.0	GRAY
604.0			GRAY SHALE	14.0	26.0	

MAPID: 05791784000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167315

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691287

DATE COLLECTED: 4 / 28 / 1946

SURFACE ELEVATION (FT.): 653.0 LOGGED (FT.): 53.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2307

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.0	PLEISTOCENE		SOIL	16.0	0.0	
637.0	PLEISTOCENE		CLAY & GRAVEL	4.0	16.0	YEL
633.0	PLEISTOCENE		CLAY & GRAVEL	5.0	20.0	GRAY
628.0	PLEISTOCENE		SAND & GRAVEL	6.0	25.0	
622.0	PLEISTOCENE		SAND & GRAVEL	1.0	31.0	AND COAL TRACE
621.0	PLEISTOCENE			9.0	32.0	
612.0			LIMESTONE	10.0	41.0	BROKEN
602.0			LIMESTONE	2.0	51.0	

MAPID: 05786392000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139363

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.698797

DATE COLLECTED: 12 / 2 / 1975

SURFACE ELEVATION (FT.): 685.8 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23999

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.8	PLEISTOCENE		UNCONSOLIDATED	70.0	0.0	

MAPID: 05786394000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141142

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.699047

DATE COLLECTED: 12 / 4 / 1975

SURFACE ELEVATION (FT.): 683.7 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 24405

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.7	PLEISTOCENE		UNCONSOLIDATED	47.2	0.0	
636.5	CARBONDALE	TURNER MINE	SHALE	1.4	47.2	
635.1	CARBONDALE	SPRINGFIELD	COAL	3.7	48.6	
631.4	CARBONDALE		SHALE/UNDERCLAY	2.7	52.3	

MAPID: 05786395000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143202

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.698774

DATE COLLECTED: 12 / 5 / 1975

SURFACE ELEVATION (FT.): 683.1 LOGGED (FT.): 52.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 24406

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
683.1	PLEISTOCENE		UNCONSOLIDATED	36.6	0.0
646.5	CARBONDALE		SHALE	6.0	36.6
640.5	CARBONDALE	ST. DAVID	LIMESTONE	0.6	42.6
639.9	CARBONDALE	TURNER MINE	SHALE	2.6	43.2
637.3	CARBONDALE	SPRINGFIELD	COAL	3.6	45.8
633.7	CARBONDALE		SHALE/UNDERCLAY	2.6	49.4

MAPID: 05786396000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142774

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.698815

DATE COLLECTED: 12 / 5 / 1975

SURFACE ELEVATION (FT.): 679.9 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 24407

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
679.9	PLEISTOCENE		CLAY & GRAVEL	60.0	0.0

MAPID: 05786397000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142964

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.698555

DATE COLLECTED: 12 / 5 / 1975

SURFACE ELEVATION (FT.): 681.8 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 24408

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.8	PLEISTOCENE		CLAY & GRAVEL	42.0	0.0
639.8	CARBONDALE	TURNER MINE	DARK SHALE	1.0	42.0
638.8	CARBONDALE	SPRINGFIELD	COAL	3.5	43.0 BROKEN
635.3	CARBONDALE		SHALE/UNDERCLAY	3.5	46.5

MAPID: 05786398000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142573 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.698549 DATE COLLECTED: 12 / 8 / 1975
SURFACE ELEVATION (FT.): 681.7 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMEAST 24409 WELL TYPE: Coal Test
COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.7	PLEISTOCENE		CLAY & GRAVEL	60.0	0.0	

MAPID: 05786399000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143187 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.69838 DATE COLLECTED: 12 / 8 / 1975
SURFACE ELEVATION (FT.): 683.4 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMEAST 24411 WELL TYPE: Coal Test
COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.4	PLEISTOCENE		UNCONSOLIDATED	34.7	0.0	
648.7	PLEISTOCENE		BOULDER	4.6	34.7	LIMESTONE
644.1	PLEISTOCENE		UNCONSOLIDATED	10.4	39.3	
633.7	CARBONDALE	SPRINGFIELD	COAL	0.5	49.7	SOFT; TOP ERODED
633.2	CARBONDALE		SHALE/UNDERCLAY	4.8	50.2	

MAPID: 05786400000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143699 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.69841 DATE COLLECTED: 12 / 9 / 1975
SURFACE ELEVATION (FT.): 684.5 LOGGED (FT.): 57.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMEAST 24412 WELL TYPE: Coal Test
COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.5	PLEISTOCENE		UNCONSOLIDATED	46.3	0.0	
638.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	46.3	
637.8	CARBONDALE	TURNER MINE	SHALE	2.4	46.7	
635.4	CARBONDALE	SPRINGFIELD	COAL	3.5	49.1	
631.9	CARBONDALE		SHALE/UNDERCLAY	4.4	52.6	

MAPID: 05786401000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143984

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.698262

DATE COLLECTED: 2 / 9 / 1975

SURFACE ELEVATION (FT.): 683.6 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 24414

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.6	PLEISTOCENE		CLAY & GRAVEL	48.5	0.0	
635.1	CARBONDALE	SPRINGFIELD	COAL	3.0	48.5	TOP ERODED
632.1	CARBONDALE		SHALE/UNDERCLAY	8.5	51.5	

MAPID: 05786402000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144303

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.698324

DATE COLLECTED: 12 / 12 / 1975

SURFACE ELEVATION (FT.): 682.9 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 24417

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.9	PLEISTOCENE		UNCONSOLIDATED	53.1	0.0	
629.8			UNKNOWN	1.0	53.1	DRILLER REPORTS SOFT COAL
628.8			UNCONSOLIDATED	2.9	54.1	
625.9			SHALE	3.0	57.0	

MAPID: 05786403000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144113

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.698576

DATE COLLECTED: 12 / 12 / 1975

SURFACE ELEVATION (FT.): 683.0 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 24418

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.0	PLEISTOCENE		UNCONSOLIDATED	45.0	0.0	
638.0	CARBONDALE		SHALE	2.5	45.0	
635.5	CARBONDALE	ST. DAVID	LIMESTONE	0.5	47.5	
635.0	CARBONDALE	TURNER MINE	SHALE	2.5	48.0	
632.5	CARBONDALE	SPRINGFIELD	COAL	3.6	50.5	
628.9	CARBONDALE		SHALE/UNDERCLAY	5.9	54.1	

MAPID: 05786404000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 10 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.144538 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.698637 **DATE COLLECTED:** 12 / 12 / 1975
SURFACE ELEVATION (FT.): 682.3 **LOGGED (FT.):** 60.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMEAST 24419 **WELL TYPE:** Coal Test
COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.3	PLEISTOCENE		CLAY & GRAVEL	60.0	0.0	

MAPID: 05786405000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 10 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.139827 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.698417 **DATE COLLECTED:** 12 / 16 / 1975
SURFACE ELEVATION (FT.): 684.2 **LOGGED (FT.):** 66.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMEAST 24425 **WELL TYPE:** Coal Test
COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.2	PLEISTOCENE		CLAY & GRAVEL	62.0	0.0	
622.2			SHALE	4.0	62.0	

MAPID: 05786406000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 10 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.140559 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.698336 **DATE COLLECTED:** 12 / 18 / 1975
SURFACE ELEVATION (FT.): 684.3 **LOGGED (FT.):** 70.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMEAST 24425 **WELL TYPE:** Coal Test
COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.3	PLEISTOCENE		CLAY & GRAVEL	70.0	0.0	

MAPID: 05786407000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145153 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.698463 DATE COLLECTED: 1 / 26 / 1976
SURFACE ELEVATION (FT.): 679.4 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMEAST 24432 WELL TYPE: Coal Test
COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
679.4	PLEISTOCENE		UNCONSOLIDATED	32.3	0.0
647.1	CARBONDALE		SHALE	12.1	32.3
635.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	44.4
634.5	CARBONDALE	TURNER MINE	SHALE	2.5	44.9
632.0	CARBONDALE	SPRINGFIELD	COAL	3.6	47.4
628.4	CARBONDALE		SHALE/UNDERCLAY	4.0	51.0

MAPID: 05786408000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144832 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.698321 DATE COLLECTED: 1 / 26 / 1976
SURFACE ELEVATION (FT.): 680.2 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMEAST 24433 WELL TYPE: Coal Test
COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.2	PLEISTOCENE		CLAY & GRAVEL	60.0	0.0

MAPID: 05786409000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145114 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.69816 DATE COLLECTED: 1 / 27 / 1976
SURFACE ELEVATION (FT.): 680.8 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMEAST 24434 WELL TYPE: Coal Test
COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.8	PLEISTOCENE		UNCONSOLIDATED	42.0	0.0
638.8	CARBONDALE		SHALE	3.2	42.0
635.6	CARBONDALE	ST. DAVID	LIMESTONE	0.5	45.2
635.1	CARBONDALE	TURNER MINE	SHALE	2.5	45.7
632.6	CARBONDALE	SPRINGFIELD	COAL	3.7	48.2
628.9	CARBONDALE		SHALE/UNDERCLAY	3.1	51.9

MAPID: 05786410000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14506 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.697834 DATE COLLECTED: 1 / 28 / 1975

SURFACE ELEVATION (FT.): 682.0 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 24436 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 32

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.0	PLEISTOCENE		CLAY & GRAVEL	60.0	0.0	

MAPID: 05791459000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361 DATE COLLECTED: 8 / 3 / 1945

SURFACE ELEVATION (FT.): 687.3 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2058 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.3	PLEISTOCENE		SOIL	6.0	0.0	
681.3	PLEISTOCENE		CLAY	5.0	6.0	
676.3	PLEISTOCENE		CLAY & GRAVEL	7.0	11.0	
669.3	PLEISTOCENE		SAND/CLAY	4.0	18.0	
665.3	PLEISTOCENE		SAND/CLAY	5.0	22.0	GRAY
660.3	PLEISTOCENE		CLAY	4.5	27.0	AND BOULDERS
655.8	PLEISTOCENE		CLAY & GRAVEL	4.5	31.5	
651.3	PLEISTOCENE		CLAY	10.0	36.0	
641.3	CARBONDALE		GRAY SHALE	11.0	46.0	
630.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	57.0	
629.5	CARBONDALE	TURNER MINE		0.4	57.8	
629.1	CARBONDALE	SPRINGFIELD	COAL	1.1	58.2	HARD
628.0	CARBONDALE	SPRINGFIELD	CLAYSTONE	1.9	59.3	WHITETOP
626.1	CARBONDALE	SPRINGFIELD	COAL	2.0	61.2	HARD
624.1	CARBONDALE		UNDERCLAY	1.8	63.2	

MAPID: 0579146000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 8 / 4 / 1945

SURFACE ELEVATION (FT.): 695.3 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2061

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.3	PLEISTOCENE		SOIL	1.0	0.0	
694.3	PLEISTOCENE		CLAY	19.6	1.0	YEL
674.7	PLEISTOCENE		CLAY	3.4	20.6	GRAY
671.3	PLEISTOCENE		UNCLASSIFIED	1.1	24.0	BROKEN COAL
670.2	PLEISTOCENE		CLAY	14.5	25.1	
655.7	CARBONDALE		MICACEOUS SHALE	3.2	39.6	
652.5	CARBONDALE		ROCK	3.8	42.8	
648.7	CARBONDALE		GRAY SHALE	6.8	46.6	
641.9	CARBONDALE		DARK SHALE	9.0	53.4	
632.9	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	62.4	
632.1	CARBONDALE	SPRINGFIELD	COAL	3.7	63.2	
628.4	CARBONDALE		UNDERCLAY	3.1	66.9	
625.3	CARBONDALE		SANDSTONE/UNDERCLAY	5.0	70.0	

MAPID: 05791461000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 8 / 4 / 1945

SURFACE ELEVATION (FT.): 694.0 LOGGED (FT.): 66.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2062

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.0	PLEISTOCENE		SOIL	10.0	0.0	
684.0	PLEISTOCENE			10.0	10.0	
674.0	PLEISTOCENE		CLAY	8.0	20.0	
666.0	CARBONDALE		DARK SHALE	9.0	28.0	
657.0	CARBONDALE		GRAY SANDSTONE	2.3	37.0	
654.7	CARBONDALE		DARK SHALE	18.3	39.3	
636.4	CARBONDALE	ST. DAVID	LIMESTONE	0.7	57.6	
635.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	58.3	SOFT
635.1	CARBONDALE	TURNER MINE	BLACK SHALE	2.4	58.9	
632.7	CARBONDALE	SPRINGFIELD	COAL/CLAYSTONE	0.5	61.3	
632.2	CARBONDALE	SPRINGFIELD	COAL	2.8	61.8	
629.4	CARBONDALE	SPRINGFIELD	COAL/CLAYSTONE	0.6	64.6	
628.8	CARBONDALE		UNDERCLAY	1.2	65.2	

MAPID: 05791462000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361 DATE COLLECTED: 8 / 0 / 1945

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 49.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2064 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.0	PLEISTOCENE		SOIL	2.0	0.0	
678.0	PLEISTOCENE		SAND & GRAVEL	14.0	2.0	
664.0	PLEISTOCENE		CLAY	2.0	16.0	YEL
662.0	PLEISTOCENE		CLAY	2.0	18.0	GRAY
660.0	CARBONDALE		DARK SHALE	16.0	20.0	
644.0	CARBONDALE		DARK SHALE	2.9	36.0	
641.1	CARBONDALE	ST. DAVID	LIMESTONE	0.7	38.9	
640.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	39.6	
639.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	40.5	
637.8	CARBONDALE	SPRINGFIELD	CLAY & COAL	0.6	42.2	
637.2	CARBONDALE	SPRINGFIELD	COAL	3.2	42.8	HARD
634.0	CARBONDALE		UNDERCLAY	3.0	46.0	

MAPID: 05791463000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361 DATE COLLECTED: 8 / 6 / 1945

SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 59.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2066 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.0	PLEISTOCENE		SOIL	14.0	0.0	
661.0	PLEISTOCENE		CLAY	2.0	14.0	
659.0	PLEISTOCENE		SAND & GRAVEL	6.0	16.0	
653.0	PLEISTOCENE			14.0	22.0	
639.0	PLEISTOCENE		CLAY	18.3	36.0	
620.7	PLEISTOCENE		CLAY	5.3	54.3	ON ROCK

MAPID: 0579148000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 23 / 1959

SURFACE ELEVATION (FT.): 690.5 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6565

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.5	PLEISTOCENE		SOIL	1.0	0.0	
689.5	PLEISTOCENE		CLAY	16.1	1.0	
673.4	PLEISTOCENE			10.2	17.1	
663.2	PLEISTOCENE		CLAY	2.8	27.3	
660.4	PLEISTOCENE		CLAY	7.0	30.1	
653.4	PLEISTOCENE		CLAY	14.4	37.1	DK GRAY
639.0	CARBONDALE	ST. DAVID	LIMESTONE	1.2	51.5	
637.8	CARBONDALE	TURNER MINE	DARK SHALE	1.3	52.7	
636.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	54.0	
635.1	CARBONDALE	SPRINGFIELD		3.8	55.4	
631.3	CARBONDALE		UNDERCLAY	0.8	59.2	

MAPID: 05791481000C VERSION: 1

PROJECT: NCRDS 01

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 23 / 1959

SURFACE ELEVATION (FT.): 696.0 LOGGED (FT.): 67.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6566

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.0	PLEISTOCENE		SOIL	1.0	0.0	
695.0	PLEISTOCENE		CLAY	18.0	1.0	
677.0	PLEISTOCENE		CLAY	1.5	19.0	AND BOULDERS
675.5	PLEISTOCENE		CLAY	2.5	20.5	
673.0	CARBONDALE		SANDY SHALE	5.4	23.0	
667.6	CARBONDALE		CALCAREOUS SHALE	10.5	28.4	
657.1	CARBONDALE			4.9	38.9	SOFT
652.2	CARBONDALE		DARK SHALE	15.2	43.8	
637.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	59.0	
636.5	CARBONDALE	TURNER MINE	DARK SHALE	1.0	59.5	
635.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	60.5	
634.3	CARBONDALE	SPRINGFIELD		3.7	61.7	
630.6	CARBONDALE		UNDERCLAY	1.6	65.4	

MAPID: 05791482000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361 DATE COLLECTED: 5 / 25 / 1959

SURFACE ELEVATION (FT.): 695.4 LOGGED (FT.): 66.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6567 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.4	PLEISTOCENE		SOIL	1.0	0.0	
694.4	PLEISTOCENE		CLAY	15.2	1.0	
679.2	PLEISTOCENE		SAND & GRAVEL	13.0	16.2	AND BOULDERS
666.2	PLEISTOCENE		CLAY, SAND & GRAVEL	11.7	29.2	
654.5	CARBONDALE		DARK SHALE	1.3	40.9	
653.2	CARBONDALE		LIMESTONE	0.4	42.2	
652.8	CARBONDALE		DARK SHALE	14.9	42.6	
637.9	CARBONDALE	ST. DAVID	LIMESTONE	0.4	57.5	
637.5	CARBONDALE	TURNER MINE	DARK SHALE	1.7	57.9	
635.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	59.6	
634.2	CARBONDALE	SPRINGFIELD		3.7	61.2	
630.5	CARBONDALE		UNDERCLAY	1.1	64.9	

MAPID: 05791483000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361 DATE COLLECTED: 5 / 25 / 1959

SURFACE ELEVATION (FT.): 682.8 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6568 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.8	PLEISTOCENE		SOIL	1.0	0.0	
681.8	PLEISTOCENE		CLAY	24.3	1.0	
657.5	PLEISTOCENE		CLAY, SAND & GRAVEL	11.8	25.3	
645.7	PLEISTOCENE		CLAY	4.4	37.1	
641.3	CARBONDALE		GRAY SHALE	1.8	41.5	
639.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	43.3	
638.5	CARBONDALE	SPRINGFIELD		3.8	44.3	
634.7	CARBONDALE		UNDERCLAY	1.9	48.1	

MAPID: 05791484000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 25 / 1959

SURFACE ELEVATION (FT.): 673.8 LOGGED (FT.): 39.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6569

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
673.8	PLEISTOCENE		SOIL	1.0	0.0	
672.8	PLEISTOCENE		CLAY	11.6	1.0	
661.2	PLEISTOCENE			21.5	12.6	
639.7	PLEISTOCENE		CLAY, SAND & GRAVEL	2.0	34.1	
637.7	CARBONDALE	SPRINGFIELD	COAL	0.6	36.1	BROKEN; TOP ERODED
637.1	CARBONDALE	SPRINGFIELD	COAL	1.0	36.7	SOFT
636.1	CARBONDALE		UNDERCLAY	1.3	37.7	

MAPID: 05791485000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 6 / 5 / 1959

SURFACE ELEVATION (FT.): 670.2 LOGGED (FT.): 38.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6596

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.2	PLEISTOCENE		SOIL	1.0	0.0	
669.2	PLEISTOCENE		CLAY	12.3	1.0	YEL
656.9	PLEISTOCENE		CLAY & GRAVEL	4.3	13.3	YEL
652.6	PLEISTOCENE		CLAY & GRAVEL	7.2	17.6	GRAY
645.4	CARBONDALE		GRAY SHALE	4.0	24.8	SOFT
641.4	CARBONDALE	TURNER MINE	DARK SHALE	2.4	28.8	
639.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	31.2	
637.7	CARBONDALE	SPRINGFIELD		3.8	32.5	
633.9	CARBONDALE		UNDERCLAY	1.7	36.3	

MAPID: 05791486000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 6 / 5 / 1959

SURFACE ELEVATION (FT.): 667.0 LOGGED (FT.): 40.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6597

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.0	PLEISTOCENE		SOIL	1.0	0.0	
666.0	PLEISTOCENE		CLAY	11.3	1.0	
654.7	PLEISTOCENE			16.1	12.3	
638.6	PLEISTOCENE			0.5	28.4	
638.1	PLEISTOCENE		SAND & GRAVEL	5.8	28.9	
632.3	PLEISTOCENE		CLAY	2.6	34.7	
629.7	PLEISTOCENE		CLAY	2.8	37.3	AND BOULDERS

MAPID: 05791487000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 6 / 5 / 1959

SURFACE ELEVATION (FT.): 674.1 LOGGED (FT.): 50.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6598

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.1	PLEISTOCENE		SOIL	1.0	0.0	
673.1	PLEISTOCENE		CLAY	19.0	1.0	
654.1	PLEISTOCENE			12.0	20.0	GRAY
642.1	PLEISTOCENE			13.0	32.0	GREEN
629.1	PLEISTOCENE		CLAY	5.1	45.0	

MAPID: 05791523000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 16 / 1962

SURFACE ELEVATION (FT.): 671.7 LOGGED (FT.): 38.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7494

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.7	PLEISTOCENE		SOIL	1.0	0.0	
670.7	PLEISTOCENE		CLAY	18.9	1.0	
651.8	PLEISTOCENE		SAND & GRAVEL	8.3	19.9	
643.5	PLEISTOCENE		CLAY & GRAVEL	4.9	28.2	
638.6	CARBONDALE	SPRINGFIELD	COAL	3.7	33.1	SOFT; TOP ERODED
634.9	CARBONDALE		UNDERCLAY	2.0	36.8	

MAPID: 05791524000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 17 / 1962

SURFACE ELEVATION (FT.): 673.5 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7495

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
673.5	PLEISTOCENE		SOIL	1.0	0.0	
672.5	PLEISTOCENE		CLAY	22.1	1.0	
650.4	PLEISTOCENE		SAND & GRAVEL	4.7	23.1	
645.7	CARBONDALE		GRAY SHALE	2.5	27.8	
643.2	CARBONDALE	ST. DAVID	LIMESTONE	1.6	30.3	
641.6	CARBONDALE	TURNER MINE	DARK SHALE	1.6	31.9	
640.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	33.5	
638.7	CARBONDALE	SPRINGFIELD	COAL	3.5	34.8	
635.2	CARBONDALE		UNDERCLAY	1.7	38.3	

MAPID: 05791525000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 17 / 1962

SURFACE ELEVATION (FT.): 672.8 LOGGED (FT.): 39.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7496

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.8	PLEISTOCENE		SOIL	1.0	0.0	
671.8	PLEISTOCENE		CLAY	18.0	1.0	
653.8	PLEISTOCENE		CLAY, SAND & GRAVEL	4.5	19.0	
649.3	PLEISTOCENE		CLAY	3.1	23.5	BOULD
646.2	PLEISTOCENE		CLAY	2.2	26.6	
644.0	CARBONDALE		GRAY SHALE	2.1	28.8	
641.9	CARBONDALE	ST. DAVID	LIMESTONE	0.4	30.9	
641.5	CARBONDALE	TURNER MINE	DARK SHALE	1.7	31.3	
639.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	33.0	
638.8	CARBONDALE	SPRINGFIELD	COAL	3.6	34.0	
635.2	CARBONDALE		UNDERCLAY	1.4	37.6	

MAPID: 05791526000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 17 / 1962

SURFACE ELEVATION (FT.): 667.3 LOGGED (FT.): 40.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7497

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.3	PLEISTOCENE		SOIL	1.0	0.0	
666.3	PLEISTOCENE		CLAY	12.4	1.0	
653.9	PLEISTOCENE		CLAY & GRAVEL	19.4	13.4	
634.5			GRAY SHALE	2.0	32.8	
632.5			LIMESTONE	1.6	34.8	
630.9			GRAY SHALE	2.8	36.4	
628.1			LIMESTONE	1.2	39.2	

MAPID: 05791527000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 17 / 1962

SURFACE ELEVATION (FT.): 673.6 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7498

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
673.6	PLEISTOCENE		SOIL	1.0	0.0	
672.6	PLEISTOCENE		CLAY & GRAVEL	19.3	1.0	
653.3	PLEISTOCENE		CLAY, SAND & GRAVEL	10.8	20.3	
642.5	CARBONDALE		GRAY SHALE	0.3	31.1	
642.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	31.4	
641.8	CARBONDALE	TURNER MINE	DARK SHALE	1.8	31.8	
640.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	33.6	
639.0	CARBONDALE	SPRINGFIELD	COAL	3.8	34.6	
635.2	CARBONDALE		UNDERCLAY	1.6	38.4	

MAPID: 05791528000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 17 / 1962

SURFACE ELEVATION (FT.): 669.3 LOGGED (FT.): 45.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7499

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.3	PLEISTOCENE		SOIL	1.0	0.0	
668.3	PLEISTOCENE		CLAY & GRAVEL	13.5	1.0	YEL
654.8	PLEISTOCENE		CLAY & GRAVEL	24.9	14.5	GRAY
629.9			GRAY SHALE	1.9	39.4	
628.0			LIMESTONE	0.7	41.3	
627.3			GRAY SHALE	3.3	42.0	

MAPID: 05791529000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 18 / 1962

SURFACE ELEVATION (FT.): 676.5 LOGGED (FT.): 41.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7500

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.5	PLEISTOCENE		SOIL	1.0	0.0	
675.5	PLEISTOCENE		CLAY & GRAVEL	19.4	1.0	YEL
656.1	PLEISTOCENE		CLAY & GRAVEL	15.1	20.4	GRAY
641.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	35.5	
639.8	CARBONDALE	SPRINGFIELD	COAL	3.8	36.7	
636.0	CARBONDALE		UNDERCLAY	1.0	40.5	

MAPID: 05791530000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 18 / 1962

SURFACE ELEVATION (FT.): 678.0 LOGGED (FT.): 50.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7501

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.0	PLEISTOCENE		SOIL	1.0	0.0	
677.0	PLEISTOCENE		CLAY & GRAVEL	20.1	1.0	
656.9	PLEISTOCENE		CLAY, SAND & GRAVEL	10.4	21.1	
646.5	PLEISTOCENE			19.0	31.5	

MAPID: 05791531000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 18 / 1962

SURFACE ELEVATION (FT.): 679.8 LOGGED (FT.): 50.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7502

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.8	PLEISTOCENE		SOIL	1.0	0.0	
678.8	PLEISTOCENE		CLAY	17.7	1.0	
661.1	PLEISTOCENE		SAND & GRAVEL	3.1	18.7	
658.0	PLEISTOCENE		CLAY & GRAVEL	8.6	21.8	
649.4	PLEISTOCENE		SAND & GRAVEL	7.8	30.4	
641.6	PLEISTOCENE		SAND/CLAY	12.2	38.2	

MAPID: 05791532000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 18 / 1962

SURFACE ELEVATION (FT.): 678.6 LOGGED (FT.): 47.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7503

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.6	PLEISTOCENE		SOIL	1.0	0.0	
677.6	PLEISTOCENE		CLAY & GRAVEL	18.1	1.0	
659.5	PLEISTOCENE		CLAY	1.0	19.1	BOULD
658.5	PLEISTOCENE			9.4	20.1	
649.1	PLEISTOCENE		SAND & GRAVEL	8.0	29.5	
641.1	PLEISTOCENE		CLAY	2.0	37.5	
639.1	CARBONDALE		SHALE	2.4	39.5	VERY SOFT
636.7	CARBONDALE	SPRINGFIELD	COAL	3.5	41.9	VERY SOFT BROKEN
633.2	CARBONDALE		UNDERCLAY	1.6	45.4	

MAPID: 05791533000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 19 / 1962

SURFACE ELEVATION (FT.): 677.9 LOGGED (FT.): 43.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7504

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.9	PLEISTOCENE		SOIL	1.0	0.0	
676.9	PLEISTOCENE		CLAY	13.1	1.0	
663.8	PLEISTOCENE		CLAY & GRAVEL	3.3	14.1	
660.5	PLEISTOCENE		CLAY, SAND & GRAVEL	16.6	17.4	
643.9	CARBONDALE		SANDY SHALE	3.6	34.0	
640.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	37.6	
638.9	CARBONDALE	SPRINGFIELD	COAL	3.7	39.0	
635.2	CARBONDALE		UNDERCLAY	1.0	42.7	

MAPID: 05791534000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 19 / 1962

SURFACE ELEVATION (FT.): 674.4 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7505

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.4	PLEISTOCENE		SOIL	1.0	0.0	
673.4	PLEISTOCENE		CLAY	4.0	1.0	
669.4	PLEISTOCENE		CLAY & GRAVEL	20.0	5.0	
649.4	PLEISTOCENE		CLAY, SAND & GRAVEL	8.2	25.0	
641.2	PLEISTOCENE		CLAY & GRAVEL	8.8	33.2	
632.4	CARBONDALE	SPRINGFIELD	COAL	0.8	42.0	SOFT BROKEN; TOP ERODED
631.6	CARBONDALE		UNDERCLAY	1.2	42.8	
630.4	CARBONDALE		GRAY SHALE	1.0	44.0	

MAPID: 05791535000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 21 / 1962

SURFACE ELEVATION (FT.): 675.2 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7506

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.2	PLEISTOCENE		SOIL	1.0	0.0	
674.2	PLEISTOCENE		CLAY	16.7	1.0	
657.5	PLEISTOCENE		CLAY & GRAVEL	7.5	17.7	
650.0	CARBONDALE		GRAY SHALE	8.9	25.2	SOFT
641.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	34.1	
640.0	CARBONDALE	SPRINGFIELD	COAL	3.8	35.2	
636.2	CARBONDALE		UNDERCLAY	1.0	39.0	

MAPID: 05791536000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 21 / 1962

SURFACE ELEVATION (FT.): 678.7 LOGGED (FT.): 44.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7507

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.7	PLEISTOCENE		SOIL	1.0	0.0	
677.7	PLEISTOCENE		CLAY	17.5	1.0	
660.2	PLEISTOCENE		CLAY & GRAVEL	2.7	18.5	
657.5	PLEISTOCENE		CLAY	0.4	21.2	BOULD
657.1	PLEISTOCENE		CLAY & GRAVEL	16.4	21.6	
640.7	CARBONDALE		SANDY SHALE	1.0	38.0	
639.7	CARBONDALE	SPRINGFIELD	COAL	3.5	39.0	
636.2	CARBONDALE		UNDERCLAY	1.5	42.5	

MAPID: 05791537000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 21 / 1962

SURFACE ELEVATION (FT.): 675.1 LOGGED (FT.): 40.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7508

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.1	PLEISTOCENE		SOIL	1.0	0.0	
674.1	PLEISTOCENE		CLAY	26.5	1.0	
647.6	PLEISTOCENE		CLAY & GRAVEL	8.2	27.5	
639.4	CARBONDALE	TURNER MINE	DARK SHALE	0.2	35.7	
639.2	CARBONDALE	SPRINGFIELD	COAL	2.3	35.9	VERY SOFT
636.9	CARBONDALE	SPRINGFIELD	COAL	1.4	38.2	
635.5	CARBONDALE		UNDERCLAY	1.0	39.6	

MAPID: 05791538000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 21 / 1962

SURFACE ELEVATION (FT.): 672.0 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7509

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.0	PLEISTOCENE		SOIL	1.0	0.0	
671.0	PLEISTOCENE		CLAY	13.0	1.0	
658.0	PLEISTOCENE			11.4	14.0	
646.6	PLEISTOCENE		CLAY	9.6	25.4	AND BOULDERS
637.0	PLEISTOCENE		CLAY	3.6	35.0	
633.4			GRAY SHALE	1.4	38.6	

MAPID: 05791539000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 21 / 1962

SURFACE ELEVATION (FT.): 678.0 LOGGED (FT.): 44.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7510

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.0	PLEISTOCENE		SOIL	1.0	0.0	
677.0	PLEISTOCENE		CLAY	27.3	1.0	
649.7	PLEISTOCENE		CLAY, SAND & GRAVEL	5.3	28.3	
644.4	PLEISTOCENE			6.5	33.6	
637.9	CARBONDALE	SPRINGFIELD	COAL	1.1	40.1	BLOOM; TOP ERODED
636.8	CARBONDALE	SPRINGFIELD	COAL	1.0	41.2	VERY SOFT
635.8	CARBONDALE		UNDERCLAY	1.8	42.2	

MAPID: 05791540000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 21 / 1962

SURFACE ELEVATION (FT.): 682.7 LOGGED (FT.): 46.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7511

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.7	PLEISTOCENE		SOIL	1.0	0.0	
681.7	PLEISTOCENE		CLAY	25.9	1.0	
655.8	PLEISTOCENE		SAND & GRAVEL	8.4	26.9	
647.4	PLEISTOCENE		CLAY	3.3	35.3	
644.1	CARBONDALE		SANDY SHALE	1.2	38.6	
642.9	CARBONDALE	TURNER MINE	DARK SHALE	1.1	39.8	
641.8	CARBONDALE	SPRINGFIELD	COAL	0.8	40.9	
641.0	CARBONDALE	SPRINGFIELD	COAL	2.8	41.7	
638.2	CARBONDALE		UNDERCLAY	1.5	44.5	

MAPID: 05791541000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 22 / 1962

SURFACE ELEVATION (FT.): 681.4 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7512

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.4	PLEISTOCENE		SOIL	1.0	0.0	
680.4	PLEISTOCENE		CLAY	26.5	1.0	
653.9	PLEISTOCENE			2.5	27.5	
651.4	PLEISTOCENE		CLAY, SAND & GRAVEL	23.0	30.0	
628.4	PLEISTOCENE			7.0	53.0	

MAPID: 05791542000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 5 / 22 / 1962

SURFACE ELEVATION (FT.): 683.0 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7513

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.0	PLEISTOCENE		SOIL	1.0	0.0	
682.0	PLEISTOCENE		CLAY	25.0	1.0	
657.0	PLEISTOCENE		CLAY, SAND & GRAVEL	19.5	26.0	
637.5	PLEISTOCENE			4.7	45.5	
632.8	PLEISTOCENE		CLAY	0.8	50.2	AND BOULDERS
632.0			GRAY SHALE	9.0	51.0	

MAPID: 05791660000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 2 / 23 / 1963

SURFACE ELEVATION (FT.): 685.5 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8183

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.5	PLEISTOCENE		SOIL	1.0	0.0	
684.5	PLEISTOCENE		CLAY & GRAVEL	28.5	1.0	
656.0	PLEISTOCENE		SAND	15.5	29.5	
640.5	PLEISTOCENE		CLAY & GRAVEL	5.0	45.0	

MAPID: 05791661000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 2 / 23 / 1963

SURFACE ELEVATION (FT.): 684.4 LOGGED (FT.): 52.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8184

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.4	PLEISTOCENE		SOIL	1.0	0.0	
683.4	PLEISTOCENE		CLAY & GRAVEL	24.7	1.0	
658.7	PLEISTOCENE		CLAY, SAND & GRAVEL	19.7	25.7	
639.0	PLEISTOCENE		CLAY & GRAVEL	3.5	45.4	
635.5	CARBONDALE	SPRINGFIELD	COAL	1.2	48.9	VERY SOFT BROKEN; TOP ERODED
634.3	CARBONDALE		UNDERCLAY	1.9	50.1	

MAPID: 05791662000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 2 / 23 / 1963

SURFACE ELEVATION (FT.): 682.1 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8185

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.1	PLEISTOCENE		SOIL	1.0	0.0	
681.1	PLEISTOCENE			24.9	1.0	
656.2	PLEISTOCENE		CLAY, SAND & GRAVEL	7.0	25.9	
649.2	PLEISTOCENE			4.6	32.9	
644.6	CARBONDALE		GRAY SHALE	3.7	37.5	
640.9	CARBONDALE	ST. DAVID	LIMESTONE	0.7	41.2	
640.2	CARBONDALE	TURNER MINE	DARK SHALE	1.2	41.9	
639.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	43.1	
637.5	CARBONDALE	SPRINGFIELD	COAL	3.8	44.6	
633.7	CARBONDALE		UNDERCLAY	1.6	48.4	

MAPID: 05791663000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 2 / 25 / 1963

SURFACE ELEVATION (FT.): 684.3 LOGGED (FT.): 54.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8186

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.3	PLEISTOCENE		SOIL	1.0	0.0	
683.3	PLEISTOCENE		CLAY & GRAVEL	24.7	1.0	YEL
658.6	PLEISTOCENE		CLAY & GRAVEL	8.0	25.7	GRAY
650.6	PLEISTOCENE		CLAY	1.6	33.7	BOULD
649.0	PLEISTOCENE		SAND & GRAVEL	11.0	35.3	
638.0	PLEISTOCENE		CLAY & GRAVEL	2.0	46.3	
636.0	CARBONDALE	SPRINGFIELD	COAL	2.4	48.3	BLOOM; TOP ERODED
633.6	CARBONDALE	SPRINGFIELD	COAL	1.2	50.7	SOFT
632.4	CARBONDALE		UNDERCLAY	2.1	51.9	

MAPID: 05791664000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 2 / 25 / 1963

SURFACE ELEVATION (FT.): 683.2 LOGGED (FT.): 51.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8187

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.2	PLEISTOCENE		SOIL	1.0	0.0	
682.2	PLEISTOCENE			25.7	1.0	
656.5	PLEISTOCENE		CLAY & GRAVEL	5.0	26.7	
651.5	CARBONDALE		GRAY SHALE	11.7	31.7	
639.8	CARBONDALE	ST. DAVID	LIMESTONE	0.3	43.4	
639.5	CARBONDALE	TURNER MINE	DARK SHALE	1.3	43.7	
638.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	45.0	
636.9	CARBONDALE	SPRINGFIELD	COAL	3.7	46.3	AND HORSEBACK
633.2	CARBONDALE		UNDERCLAY	1.0	50.0	

MAPID: 05791665000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 2 / 25 / 1963

SURFACE ELEVATION (FT.): 687.6 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8188

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.6	PLEISTOCENE		SOIL	1.0	0.0	
686.6	PLEISTOCENE		CLAY & GRAVEL	27.1	1.0	
659.5	PLEISTOCENE		CLAY & GRAVEL	5.2	28.1	
654.3	PLEISTOCENE		SAND & GRAVEL	9.2	33.3	
645.1	PLEISTOCENE			1.1	42.5	
644.0	CARBONDALE		GRAY SHALE	4.7	43.6	
639.3	CARBONDALE	ST. DAVID	LIMESTONE	0.6	48.3	
638.7	CARBONDALE	TURNER MINE	DARK SHALE	1.8	48.9	
636.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	50.7	
635.7	CARBONDALE	SPRINGFIELD	COAL	3.6	51.9	AND HORSEBACK
632.1	CARBONDALE		UNDERCLAY	1.5	55.5	
630.6	CARBONDALE		GRAY SHALE	3.0	57.0	

MAPID: 05791666000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 2 / 25 / 1963

SURFACE ELEVATION (FT.): 688.7 LOGGED (FT.): 57.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8189

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.7	PLEISTOCENE		SOIL	1.0	0.0	
687.7	PLEISTOCENE			24.1	1.0	
663.6	PLEISTOCENE		CLAY & GRAVEL	10.5	25.1	
653.1	PLEISTOCENE		SAND & GRAVEL	3.9	35.6	
649.2	PLEISTOCENE		CLAY	1.4	39.5	BOULD
647.8	CARBONDALE		GRAY SHALE	8.2	40.9	
639.6	CARBONDALE	ST. DAVID	LIMESTONE	0.3	49.1	
639.3	CARBONDALE	TURNER MINE	DARK SHALE	1.2	49.4	
638.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	50.6	
636.5	CARBONDALE	SPRINGFIELD	COAL	3.7	52.2	
632.8	CARBONDALE		UNDERCLAY	1.1	55.9	

MAPID: 05791667000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 2 / 26 / 1963

SURFACE ELEVATION (FT.): 687.3 LOGGED (FT.): 53.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8190

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.3	PLEISTOCENE		SOIL	1.0	0.0	
686.3	PLEISTOCENE			22.2	1.0	
664.1	PLEISTOCENE		CLAY & GRAVEL	21.1	23.2	
643.0	CARBONDALE		GRAY SHALE	1.4	44.3	
641.6	CARBONDALE	ST. DAVID	LIMESTONE	0.4	45.7	
641.2	CARBONDALE	TURNER MINE	DARK SHALE	1.4	46.1	
639.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	47.5	
638.7	CARBONDALE	SPRINGFIELD	COAL	3.7	48.6	
635.0	CARBONDALE		UNDERCLAY	1.0	52.3	

MAPID: 05791668000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 2 / 26 / 1963

SURFACE ELEVATION (FT.): 686.9 LOGGED (FT.): 56.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8191

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
686.9	PLEISTOCENE		SOIL	1.0	0.0	
685.9	PLEISTOCENE		CLAY & GRAVEL	26.1	1.0	YEL
659.8	PLEISTOCENE		CLAY & GRAVEL	11.7	27.1	GRAY
648.1	CARBONDALE		SANDY SHALE	8.0	38.8	
640.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	46.8	
639.7	CARBONDALE	TURNER MINE	DARK SHALE	1.4	47.2	
638.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	48.6	
637.3	CARBONDALE	SPRINGFIELD	COAL	3.8	49.6	
633.5	CARBONDALE		UNDERCLAY	1.6	53.4	
631.9	CARBONDALE		GRAY SHALE	1.4	55.0	

MAPID: 05791669000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 2 / 27 / 1963

SURFACE ELEVATION (FT.): 683.3 LOGGED (FT.): 51.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8192

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.3	PLEISTOCENE		SOIL	1.0	0.0	
682.3	PLEISTOCENE			25.6	1.0	
656.7	PLEISTOCENE		SAND & GRAVEL	11.2	26.6	
645.5	PLEISTOCENE			4.8	37.8	
640.7	CARBONDALE		SANDY SHALE	1.2	42.6	
639.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	43.8	
639.1	CARBONDALE	TURNER MINE	DARK SHALE	1.6	44.2	
637.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	45.8	
636.5	CARBONDALE	SPRINGFIELD	COAL	3.7	46.8	
632.8	CARBONDALE		UNDERCLAY	1.0	50.5	

MAPID: 05791670000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 2 / 27 / 1963

SURFACE ELEVATION (FT.): 681.5 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8193

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.5	PLEISTOCENE		SOIL	1.0	0.0	
680.5	PLEISTOCENE			24.7	1.0	
655.8	PLEISTOCENE		SAND & GRAVEL	11.1	25.7	
644.7	PLEISTOCENE			4.1	36.8	
640.6	CARBONDALE	ST. DAVID	LIMESTONE	0.4	40.9	
640.2	CARBONDALE	TURNER MINE	DARK SHALE	1.2	41.3	SOFT
639.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	42.5	SOFT
638.0	CARBONDALE	SPRINGFIELD	COAL	3.8	43.5	SOFT
634.2	CARBONDALE		UNDERCLAY	1.7	47.3	
632.5	CARBONDALE		GRAY SHALE	1.0	49.0	

MAPID: 05791671000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 27 / 1963

SURFACE ELEVATION (FT.): 695.6 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8223

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.6	PLEISTOCENE		SOIL	1.0	0.0	
694.6	PLEISTOCENE			19.0	1.0	
675.6	PLEISTOCENE		CLAY, SAND & GRAVEL	5.0	20.0	
670.6	PLEISTOCENE		CLAY & GRAVEL	31.3	25.0	
639.3	PLEISTOCENE		CLAY	0.4	56.3	BOULD
638.9	PLEISTOCENE			13.3	56.7	

MAPID: 05791672000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 28 / 1963

SURFACE ELEVATION (FT.): 696.9 LOGGED (FT.): 66.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8224

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.9	PLEISTOCENE		SOIL	1.0	0.0	
695.9	PLEISTOCENE			23.8	1.0	
672.1	PLEISTOCENE		CLAY & GRAVEL	23.4	24.8	
648.7	PLEISTOCENE			5.9	48.2	
642.8	CARBONDALE		GRAY SHALE	4.7	54.1	
638.1	CARBONDALE	ST. DAVID	LIMESTONE	0.5	58.8	
637.6	CARBONDALE	TURNER MINE	DARK SHALE	1.3	59.3	
636.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	60.6	
634.9	CARBONDALE	SPRINGFIELD	COAL	3.7	62.0	
631.2	CARBONDALE		UNDERCLAY	1.0	65.7	

MAPID: 05791673000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 28 / 1963

SURFACE ELEVATION (FT.): 696.0 LOGGED (FT.): 67.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8225

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.0	PLEISTOCENE		SOIL	1.0	0.0	
695.0	PLEISTOCENE			19.1	1.0	
675.9	PLEISTOCENE		CLAY, SAND & GRAVEL	11.8	20.1	
664.1	PLEISTOCENE		CLAY	15.0	31.9	AND DRIFT COAL
649.1	CARBONDALE		BROWN SHALE	1.7	46.9	
647.4	CARBONDALE		GRAY SHALE	9.0	48.6	
638.4	CARBONDALE	ST. DAVID	LIMESTONE	0.7	57.6	
637.7	CARBONDALE	TURNER MINE	DARK SHALE	1.5	58.3	
636.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	59.8	
634.9	CARBONDALE	SPRINGFIELD	COAL	3.7	61.1	
631.2	CARBONDALE		UNDERCLAY	2.2	64.8	

MAPID: 05791674000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 28 / 1963

SURFACE ELEVATION (FT.): 695.4 LOGGED (FT.): 65.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8226

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.4	PLEISTOCENE		SOIL	1.0	0.0	
694.4	PLEISTOCENE		CLAY	21.6	1.0	
672.8	PLEISTOCENE		CLAY & GRAVEL	25.2	22.6	
647.6	PLEISTOCENE		CLAY	0.9	47.8	BOULD
646.7	PLEISTOCENE		CLAY & GRAVEL	4.7	48.7	
642.0	PLEISTOCENE		CLAY & GRAVEL	8.8	53.4	
633.2	CARBONDALE	SPRINGFIELD	CLAY & COAL	3.0	62.2	TOP ERODED

MAPID: 05791675000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 29 / 1963

SURFACE ELEVATION (FT.): 695.7 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8227

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.7	PLEISTOCENE		SOIL	1.0	0.0	
694.7	PLEISTOCENE			19.4	1.0	
675.3	PLEISTOCENE		CLAY, SAND & GRAVEL	17.7	20.4	
657.6	PLEISTOCENE		CLAY & GRAVEL	7.5	38.1	
650.1	PLEISTOCENE		CLAY	0.8	45.6	BOULD
649.3	PLEISTOCENE			4.6	46.4	
644.7	CARBONDALE		BROWN SHALE	2.0	51.0	SOFT
642.7	CARBONDALE		GRAY SHALE	3.7	53.0	
639.0	CARBONDALE	ST. DAVID	LIMESTONE	0.3	56.7	
638.7	CARBONDALE	TURNER MINE	DARK SHALE	1.6	57.0	
637.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	58.6	
635.9	CARBONDALE	SPRINGFIELD	COAL	3.6	59.8	AND HORSEBACK
632.3	CARBONDALE		UNDERCLAY	1.6	63.4	

MAPID: 05791676000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 29 / 1963

SURFACE ELEVATION (FT.): 696.4 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8228

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.4	PLEISTOCENE		SOIL	1.0	0.0	
695.4	PLEISTOCENE			21.1	1.0	
674.3	PLEISTOCENE		CLAY	11.2	22.1	
663.1	PLEISTOCENE		CLAY & GRAVEL	20.1	33.3	
643.0	PLEISTOCENE		CLAY	0.6	53.4	BOULD
642.4	PLEISTOCENE			16.0	54.0	

MAPID: 05791677000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 29 / 1963

SURFACE ELEVATION (FT.): 696.7 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8229

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.7	PLEISTOCENE		SOIL	1.0	0.0	
695.7	PLEISTOCENE		CLAY	22.9	1.0	YEL
672.8	PLEISTOCENE		CLAY	11.9	23.9	GRAY
660.9	PLEISTOCENE		CLAY	9.8	35.8	GRAY
651.1	PLEISTOCENE			9.3	45.6	
641.8	CARBONDALE		GRAY SHALE	1.5	54.9	
640.3	CARBONDALE	ST. DAVID	LIMESTONE	0.4	56.4	
639.9	CARBONDALE	TURNER MINE	DARK SHALE	1.6	56.8	
638.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	58.4	
636.9	CARBONDALE	SPRINGFIELD	COAL	3.5	59.8	
633.4	CARBONDALE		UNDERCLAY	1.7	63.3	

MAPID: 05791685000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 2 / 1975

SURFACE ELEVATION (FT.): 685.8 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23999

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.8	PLEISTOCENE		UNCONSOLIDATED	70.0	0.0	

MAPID: 05791686000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 11 / 1975

SURFACE ELEVATION (FT.): 695.8 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24269

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.8	PLEISTOCENE		CLAY	19.0	0.0	
676.8	PLEISTOCENE		CLAY	2.3	19.0	BOULD
674.5	PLEISTOCENE		CLAY	4.7	21.3	YEL
669.8	PLEISTOCENE		CLAY	32.0	26.0	GRAY
637.8	PLEISTOCENE		CLAY	2.1	58.0	BOULD
635.7	PLEISTOCENE		CLAY	5.3	60.1	
630.4			MICACEOUS SHALE	4.6	65.4	

MAPID: 05791687000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 15 / 1975

SURFACE ELEVATION (FT.): 696.8 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24271

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.8	PLEISTOCENE		CLAY	25.0	0.0	YEL
671.8	PLEISTOCENE		CLAY	47.6	25.0	GRAY
624.2			MICACEOUS SHALE	2.4	72.6	

MAPID: 05791688000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 16 / 1975

SURFACE ELEVATION (FT.): 697.3 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24272

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.3	PLEISTOCENE		CLAY	27.7	0.0	YEL
669.6	PLEISTOCENE		CLAY	12.6	27.7	GRAY
657.0	PLEISTOCENE		CLAY	2.9	40.3	BOULD
654.1	PLEISTOCENE		CLAY	11.8	43.2	
642.3	CARBONDALE		DARK SHALE	2.2	55.0	
640.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	57.2	
639.7	CARBONDALE	TURNER MINE	DARK SHALE	1.5	57.6	
638.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	59.1	
637.5	CARBONDALE	SPRINGFIELD	COAL	3.8	59.8	
633.7	CARBONDALE		UNDERCLAY	1.4	63.6	

MAPID: 05791689000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 16 / 1975

SURFACE ELEVATION (FT.): 697.3 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24273

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.3	PLEISTOCENE		CLAY	26.0	0.0	YEL
671.3	PLEISTOCENE		CLAY	20.1	26.0	GRAY
651.2	PLEISTOCENE		CLAY	5.5	46.1	BOULD
645.7	PLEISTOCENE		CLAY	5.9	51.6	
639.8	CARBONDALE	TURNER MINE	DARK SHALE	1.2	57.5	
638.6	CARBONDALE		BLACK SHALE	0.8	58.7	
637.8	CARBONDALE	SPRINGFIELD	COAL	3.7	59.5	
634.1	CARBONDALE		UNDERCLAY	1.8	63.2	

MAPID: 0579169000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 16 / 1975

SURFACE ELEVATION (FT.): 695.7 LOGGED (FT.): 63.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24274

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.7	PLEISTOCENE		CLAY	25.0	0.0	YEL
670.7	PLEISTOCENE		CLAY	32.7	25.0	GRAY
638.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.4	57.7	
637.6	CARBONDALE	SPRINGFIELD	COAL	3.8	58.1	
633.8	CARBONDALE		UNDERCLAY	1.1	61.9	

MAPID: 05791691000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 16 / 1975

SURFACE ELEVATION (FT.): 696.1 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24275

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.1	PLEISTOCENE		CLAY	27.0	0.0	YEL
669.1	PLEISTOCENE		CLAY	29.8	27.0	GRAY
639.3	CARBONDALE	ST. DAVID	LIMESTONE	0.3	56.8	
639.0	CARBONDALE	TURNER MINE	DARK SHALE	1.5	57.1	
637.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	58.6	
636.4	CARBONDALE	SPRINGFIELD	COAL	3.7	59.7	
632.7	CARBONDALE		UNDERCLAY	1.6	63.4	

MAPID: 05791692000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 17 / 1975

SURFACE ELEVATION (FT.): 695.6 LOGGED (FT.): 66.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24276

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.6	PLEISTOCENE		CLAY	26.2	0.0	YEL
669.4	PLEISTOCENE		CLAY	18.9	26.2	GRAY
650.5	PLEISTOCENE		CLAY	4.7	45.1	BOULD; LIMESTONE
645.8	PLEISTOCENE		CLAY	9.8	49.8	
636.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	59.6	
635.1	CARBONDALE	SPRINGFIELD	COAL	3.8	60.5	
631.3	CARBONDALE		UNDERCLAY	1.7	64.3	

MAPID: 05791694000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 3 / 1975

SURFACE ELEVATION (FT.): 684.0 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24401

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.0	PLEISTOCENE		UNCONSOLIDATED	66.5	0.0	
617.5			SHALE	3.5	66.5	

MAPID: 05791695000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 3 / 1975

SURFACE ELEVATION (FT.): 683.3 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24402

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.3	PLEISTOCENE		UNCONSOLIDATED	51.8	0.0	
631.5	CARBONDALE	TURNER MINE	DARK SHALE	0.8	51.8	
630.7	CARBONDALE	SPRINGFIELD	COAL	2.0	52.6	SOFT AND BROKEN
628.7	CARBONDALE	SPRINGFIELD	COAL	1.6	54.6	
627.1	CARBONDALE		SHALE/UNDERCLAY	3.8	56.2	

MAPID: 05791696000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 3 / 1975

SURFACE ELEVATION (FT.): 684.1 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24403

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.1	PLEISTOCENE		UNCONSOLIDATED	53.6	0.0	
630.5	CARBONDALE	SPRINGFIELD	COAL	0.8	53.6	SOFT; TOP ERODED
629.7	CARBONDALE	SPRINGFIELD	COAL	2.7	54.4	
627.0	CARBONDALE		SHALE/UNDERCLAY	2.9	57.1	

MAPID: 05791697000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 15 / 1975

SURFACE ELEVATION (FT.): 685.5 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24420

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.5	PLEISTOCENE		CLAY & GRAVEL	70.0	0.0	

MAPID: 05791698000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 4 / 1975

SURFACE ELEVATION (FT.): 682.4 LOGGED (FT.): 58.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24404

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.4	PLEISTOCENE		CLAY	26.0	0.0	
656.4	PLEISTOCENE		SAND & GRAVEL	26.5	26.0	
629.9	CARBONDALE	SPRINGFIELD	COAL	3.4	52.5	TOP ERODED
626.5	CARBONDALE		SHALE/UNDERCLAY	2.1	55.9	

MAPID: 05791699000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 15 / 1975

SURFACE ELEVATION (FT.): 685.6 LOGGED (FT.): 62.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24421

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.6	PLEISTOCENE		UNCONSOLIDATED	31.7	0.0
653.9	CARBONDALE		SHALE	21.6	31.7
632.3	CARBONDALE	TURNER MINE	SHALE	2.6	53.3
629.7	CARBONDALE	SPRINGFIELD	COAL	3.8	55.9
625.9	CARBONDALE		SHALE/UNDERCLAY	2.3	59.7

MAPID: 05791700000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 16 / 1975

SURFACE ELEVATION (FT.): 684.2 LOGGED (FT.): 66.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24422

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.2	PLEISTOCENE		CLAY & GRAVEL	62.0	0.0
622.2	CARBONDALE		SHALE	4.0	62.0

MAPID: 05791701000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 16 / 1975

SURFACE ELEVATION (FT.): 685.5 LOGGED (FT.): 63.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24423

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.5	PLEISTOCENE		UNCONSOLIDATED	33.0	0.0
652.5	CARBONDALE		SHALE	20.5	33.0
632.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	53.5
631.5	CARBONDALE	TURNER MINE	SHALE	2.5	54.0
629.0	CARBONDALE	SPRINGFIELD	COAL	3.7	56.5
625.3	CARBONDALE		SHALE/UNDERCLAY	2.8	60.2

MAPID: 05791702000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 17 / 1975

SURFACE ELEVATION (FT.): 685.0 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24424

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.0	PLEISTOCENE		UNCONSOLIDATED	51.8	0.0	
633.2	CARBONDALE	ST. DAVID	LIMESTONE	0.6	51.8	
632.6	CARBONDALE	TURNER MINE	SHALE	2.8	52.4	
629.8	CARBONDALE	SPRINGFIELD	COAL	3.7	55.2	
626.1	CARBONDALE		UNDERCLAY	1.1	58.9	

MAPID: 05791703000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 18 / 1975

SURFACE ELEVATION (FT.): 684.3 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24425

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.3	PLEISTOCENE		CLAY & GRAVEL	70.0	0.0	

MAPID: 05791704000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 12 / 18 / 1975

SURFACE ELEVATION (FT.): 685.6 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 24426

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.6	PLEISTOCENE		UNCONSOLIDATED	48.5	0.0	
637.1	CARBONDALE		SHALE	5.4	48.5	
631.7	CARBONDALE	ST. DAVID	LIMESTONE	0.6	53.9	
631.1	CARBONDALE	TURNER MINE	SHALE	2.5	54.5	
628.6	CARBONDALE	SPRINGFIELD	COAL	3.7	57.0	
624.9	CARBONDALE		SHALE/UNDERCLAY	9.3	60.7	

MAPID: 05791756000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 13 / 1946

SURFACE ELEVATION (FT.): 652.4 LOGGED (FT.): 36.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2250

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
652.4	PLEISTOCENE		SOIL	1.0	0.0	
651.4	PLEISTOCENE		SAND/CLAY	15.6	1.0	AND BOULDERS YEL
635.8	PLEISTOCENE		SAND/CLAY	4.0	16.6	AND BOULDERS GRAY
631.8	CARBONDALE		DARK SHALE	11.9	20.6	
619.9	CARBONDALE	SPRINGFIELD	COAL	1.6	32.5	SOFT BROKEN
618.3	CARBONDALE		UNDERCLAY	2.8	34.1	

MAPID: 05791757000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 13 / 1946

SURFACE ELEVATION (FT.): 664.6 LOGGED (FT.): 43.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2255

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.6	PLEISTOCENE		SOIL	1.0	0.0	
663.6	PLEISTOCENE		SAND/CLAY	18.1	1.0	AND BOULDERS
645.5	CARBONDALE		COAL	0.9	19.1	BROKEN; TOP ERODED
644.6	CARBONDALE		UNKNOWN	5.3	20.0	SANDY
639.3	CARBONDALE		ROCK	2.1	25.3	
637.2	CARBONDALE		UNKNOWN	13.6	27.4	
623.6	CARBONDALE	SPRINGFIELD	COAL	0.5	41.0	
623.1	CARBONDALE		UNDERCLAY	1.5	41.5	

MAPID: 0579176000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 19 / 1946

SURFACE ELEVATION (FT.): 682.7 LOGGED (FT.): 75.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2260

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.7	PLEISTOCENE		SOIL	1.0	0.0	
681.7	PLEISTOCENE		SAND/CLAY	23.6	1.0	AND BOULDERS YEL
658.1	PLEISTOCENE		SAND/CLAY	20.7	24.6	AND BOULDERS GRAY
637.4	PLEISTOCENE		UNKNOWN	4.0	45.3	W/ WOOD
633.4			UNKNOWN	19.2	49.3	
614.2	CARBONDALE	SPRINGFIELD	COAL	0.9	68.5	
613.3	CARBONDALE		GRAY SHALE	5.9	69.4	

MAPID: 05791761000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 20 / 1946

SURFACE ELEVATION (FT.): 679.8 LOGGED (FT.): 75.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2262

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.8	PLEISTOCENE		SOIL	1.0	0.0	
678.8	PLEISTOCENE		SAND/CLAY	22.6	1.0	AND BOULDERS YEL
656.2	PLEISTOCENE		SAND/CLAY	34.1	23.6	AND BOULDERS GRAY
622.1	PLEISTOCENE		UNKNOWN	2.4	57.7	
619.7	PLEISTOCENE		SAND	6.6	60.1	AND UNK
613.1			SANDSTONE	5.6	66.7	
607.5			UNKNOWN	3.0	72.3	

MAPID: 05791762000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 15 / 1946

SURFACE ELEVATION (FT.): 676.7 LOGGED (FT.): 42.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2263

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.7	PLEISTOCENE		SOIL	1.0	0.0	
675.7	PLEISTOCENE		CLAY	20.3	1.0	
655.4	PLEISTOCENE		SAND/CLAY	6.0	21.3	
649.4	CARBONDALE		GRAY SHALE	9.7	27.3	
639.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	37.0	
638.7	CARBONDALE	SPRINGFIELD		3.1	38.0	
635.6	CARBONDALE		UNDERCLAY	0.9	41.1	

MAPID: 05791763000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 20 / 1946

SURFACE ELEVATION (FT.): 679.2 LOGGED (FT.): 75.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2264

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.2	PLEISTOCENE		SOIL	1.0	0.0	
678.2	PLEISTOCENE		SAND/CLAY	25.3	1.0	AND BOULDERS
652.9	PLEISTOCENE		SAND/CLAY	45.0	26.3	
607.9	PLEISTOCENE		CLAY	4.0	71.3	

MAPID: 05791764000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 21 / 1946

SURFACE ELEVATION (FT.): 680.9 LOGGED (FT.): 75.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2266

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.9	PLEISTOCENE		SOIL	1.0	0.0	
679.9	PLEISTOCENE		SAND/CLAY	24.3	1.0	AND BOULDERS YEL
655.6	PLEISTOCENE		SAND/CLAY	27.0	25.3	AND BOULDERS GRAY
628.6	PLEISTOCENE		UNKNOWN	1.9	52.3	AND WOOD
626.7	PLEISTOCENE		SAND/CLAY	8.8	54.2	
617.9			COAL	1.1	63.0	
616.8			UNKNOWN	11.2	64.1	SANDY

MAPID: 05791765000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 22 / 1946

SURFACE ELEVATION (FT.): 672.5 LOGGED (FT.): 75.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2268

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.5	PLEISTOCENE		SOIL	1.0	0.0	
671.5	PLEISTOCENE		SAND/CLAY	22.3	1.0	AND BOULDERS
649.2	PLEISTOCENE		SAND/CLAY	52.0	23.3	GRAY

MAPID: 05791766000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 22 / 1946

SURFACE ELEVATION (FT.): 674.6 LOGGED (FT.): 75.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2270

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.6	PLEISTOCENE		SOIL	1.0	0.0	
673.6	PLEISTOCENE		SAND/CLAY	25.3	1.0	AND BOULDERS YEL
648.3	PLEISTOCENE		SAND/CLAY	49.0	26.3	AND BOULDERS GRAY

MAPID: 05791794000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 2 / 1966

SURFACE ELEVATION (FT.): 675.9 LOGGED (FT.): 49.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9576

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.9	PLEISTOCENE			28.7	0.0	SHALY
647.2	PLEISTOCENE		UNCONSOLIDATED	11.3	28.7	
635.9	PLEISTOCENE		SHALEY CLAYSTONE	9.0	40.0	

MAPID: 05791795000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 2 / 1966

SURFACE ELEVATION (FT.): 674.2 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9578

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.2	PLEISTOCENE		SHALEY CLAYSTONE	34.5	0.0	
639.7			SHALE	3.0	34.5	
636.7			ARGILACEOUS SHALE	7.5	37.5	

MAPID: 05791796000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 2 / 1966

SURFACE ELEVATION (FT.): 669.1 LOGGED (FT.): 28.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9579

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.1	PLEISTOCENE		SHALEY CLAYSTONE	18.5	0.0	
650.6	CARBONDALE		GRAY SHALE	1.7	18.5	
648.9	CARBONDALE		DARK SHALE	3.7	20.2	
645.2	CARBONDALE	SPRINGFIELD	COAL	1.4	23.9	
643.8	CARBONDALE		ARGILACEOUS SHALE	2.7	25.3	

MAPID: 05791797000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 3 / 1966

SURFACE ELEVATION (FT.): 656.2 LOGGED (FT.): 24.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9587

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
656.2			SHALEY CLAYSTONE	15.9	0.0
640.3	CARBONDALE		GRAY SHALE	0.9	15.9
639.4	CARBONDALE	TURNER MINE	SHALE	1.9	16.8
637.5	CARBONDALE	SPRINGFIELD	COAL	3.4	18.7
634.1	CARBONDALE		UNDERCLAY	1.9	22.1

MAPID: 05791798000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 3 / 1966

SURFACE ELEVATION (FT.): 655.6 LOGGED (FT.): 39.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9588

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
655.6	PLEISTOCENE		UNCONSOLIDATED	11.2	0.0
644.4	PLEISTOCENE		UNCONSOLIDATED	12.7	11.2
631.7			LIMESTONE	1.8	23.9
629.9			ARGILACEOUS SHALE	13.3	25.7

MAPID: 05791800000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691361

DATE COLLECTED: 3 / 4 / 1966

SURFACE ELEVATION (FT.): 654.2 LOGGED (FT.): 28.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 9590

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
654.2	PLEISTOCENE		SHALEY CLAYSTONE	16.0	0.0
638.2	CARBONDALE		GRAY SHALE	4.1	16.0
634.1	CARBONDALE		SHALE	3.0	20.1
631.1	CARBONDALE		ARGILACEOUS SHALE	4.9	23.1

MAPID: 05760033000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES: 15' N line, 15' E line of NE SW NE
 QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.124689 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.69509 DATE COLLECTED: 12 / 11 / 1928
 SURFACE ELEVATION (FT.): 720.0 LOGGED (FT.): 27.3 LOG TYPE: Drillers Log
 SOURCE: STONEFORT COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.7	CARBONDALE	HERRIN	COAL	4.0	23.3	

MAPID: 05760044000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES: 15' N line, 15' W line of NW SW NE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.129332 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.695066 DATE COLLECTED: 12 / 11 / 1928
 SURFACE ELEVATION (FT.): 721.0 LOGGED (FT.): 28.9 LOG TYPE: Drillers Log
 SOURCE: STONEFORT COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.7	CARBONDALE	HERRIN	COAL	4.7	24.3	

MAPID: 05784008000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:
 QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120967 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.68504 DATE COLLECTED: 6 / 13 / 1963
 SURFACE ELEVATION (FT.): 663.4 LOGGED (FT.): 35.3 LOG TYPE: Drillers Log
 SOURCE: MIDLAND COAL CO. FARMWEST 8413 WELL TYPE: Coal Test
 COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.4	PLEISTOCENE		SANDY CLAY	9.6	0.0	
653.8	PLEISTOCENE		SAND & GRAVEL	14.8	9.6	
639.0	PLEISTOCENE		SANDY CLAY	3.9	24.4	
635.1	CARBONDALE	TURNER MINE	SHALE	2.3	28.3	
632.8	CARBONDALE	SPRINGFIELD	COAL	3.7	30.6	SOFT
629.1	CARBONDALE		UNDERCLAY	1.0	34.3	

MAPID: 05784009000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120903

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.68485

DATE COLLECTED: 6 / 13 / 1963

SURFACE ELEVATION (FT.): 659.9 LOGGED (FT.): 35.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8414

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.9	PLEISTOCENE		SANDY CLAY	9.7	0.0	
650.2	PLEISTOCENE		SAND & GRAVEL	13.4	9.7	
636.8	PLEISTOCENE		CLAY	3.9	23.1	& BOULDERS
632.9	PLEISTOCENE		CLAY & GRAVEL	8.0	27.0	

MAPID: 05784010000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120512

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685221

DATE COLLECTED: 6 / 13 / 1963

SURFACE ELEVATION (FT.): 636.7 LOGGED (FT.): 14.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8415

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
636.7	PLEISTOCENE		SILT	4.0	0.0	
632.7	PLEISTOCENE		CLAY & GRAVEL	6.0	4.0	
626.7	CARBONDALE		GRAY SHALE	3.0	10.0	
623.7	CARBONDALE		LIMESTONE	1.8	13.0	

MAPID: 05784011000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120815

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685515

DATE COLLECTED: 6 / 13 / 1963

SURFACE ELEVATION (FT.): 633.1 LOGGED (FT.): 10.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8417

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.1	PLEISTOCENE		SILT	2.7	0.0	
630.4	CARBONDALE	SPRINGFIELD	COAL	1.0	2.7	BROKEN; TOP ERODED
629.4	CARBONDALE		UNDERCLAY	1.3	3.7	
628.1	CARBONDALE		GRAY SHALE	5.0	5.0	

MAPID: 05784012000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120989

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685922

DATE COLLECTED: 6 / 13 / 1963

SURFACE ELEVATION (FT.): 640.9 LOGGED (FT.): 17.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8418

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.9	PLEISTOCENE		CLAY & GRAVEL	8.4	0.0	
632.5	CARBONDALE		GRAY SHALE	7.8	8.4	
624.7	CARBONDALE		LIMESTONE	0.3	16.2	
624.4	CARBONDALE		GRAY SHALE	1.0	16.5	

MAPID: 05784013000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121172

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686937

DATE COLLECTED: 6 / 17 / 1963

SURFACE ELEVATION (FT.): 644.1 LOGGED (FT.): 20.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8424

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.1	PLEISTOCENE		CLAY, SAND & GRAVEL	6.6	0.0	
637.5	PLEISTOCENE		BOULDER	0.5	6.6	
637.0	PLEISTOCENE		CLAY & GRAVEL	1.3	7.1	YELLOW
635.7	PLEISTOCENE		CLAY & GRAVEL	6.2	8.4	GRAY
629.5	CARBONDALE		GRAY SHALE	5.4	14.6	

MAPID: 05784014000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121048

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687197

DATE COLLECTED: 6 / 17 / 1963

SURFACE ELEVATION (FT.): 645.4 LOGGED (FT.): 20.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8427

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.4	PLEISTOCENE		CLAY	7.8	0.0	& BOULDERS
637.6	PLEISTOCENE		CLAY	3.1	7.8	
634.5	PLEISTOCENE		BOULDER	0.3	10.9	
634.2	CARBONDALE	TURNER MINE	DARK SHALE	1.2	11.2	
633.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	12.4	
632.0	CARBONDALE	SPRINGFIELD	COAL	3.5	13.4	
628.5	CARBONDALE		UNDERCLAY	1.1	16.9	
627.4	CARBONDALE		GRAY SHALE	2.0	18.0	

MAPID: 05784015000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12077

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687308

DATE COLLECTED: 6 / 17 / 1963

SURFACE ELEVATION (FT.): 642.1 LOGGED (FT.): 20.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8428

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
642.1	PLEISTOCENE		CLAY & GRAVEL	5.0	0.0	YELLOW
637.1	PLEISTOCENE		CLAY & GRAVEL	5.5	5.0	GRAY
631.6	PLEISTOCENE		BOULDER	0.4	10.5	
631.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	10.9	SOFT BROKEN
630.0	CARBONDALE	SPRINGFIELD	COAL	1.0	12.1	SOFT BROKEN
629.0	CARBONDALE	SPRINGFIELD	COAL	2.6	13.1	SOFT
626.4	CARBONDALE		UNDERCLAY	2.3	15.7	
624.1	CARBONDALE		GRAY SHALE	2.0	18.0	

MAPID: 05784016000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120901

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.68704

DATE COLLECTED: 6 / 17 / 1963

SURFACE ELEVATION (FT.): 640.3 LOGGED (FT.): 20.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8429

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.3	PLEISTOCENE		CLAY	2.5	0.0	YELLOW
637.8	PLEISTOCENE		CLAY	7.5	2.5	GRAY
630.3	CARBONDALE	SPRINGFIELD	CLAY & COAL	1.1	10.0	TOP ERODED
629.2	CARBONDALE		GRAY SHALE	8.9	11.1	

MAPID: 05784017000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120326

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686751

DATE COLLECTED: 6 / 18 / 1963

SURFACE ELEVATION (FT.): 659.0 LOGGED (FT.): 30.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8433

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.0	PLEISTOCENE		CLAY & GRAVEL	16.4	0.0	
642.6	PLEISTOCENE		CLAY	5.8	16.4	
636.8	CARBONDALE	ST. DAVID	LIMESTONE	0.3	22.2	
636.5	CARBONDALE	TURNER MINE	DARK SHALE	1.7	22.5	
634.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	24.2	
633.8	CARBONDALE	SPRINGFIELD	COAL	3.8	25.2	SOFT
630.0	CARBONDALE		UNDERCLAY	1.0	29.0	

MAPID: 05784018000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120959

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688626

DATE COLLECTED: 6 / 22 / 1963

SURFACE ELEVATION (FT.): 653.7 LOGGED (FT.): 30.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8443

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.7	PLEISTOCENE		SANDY CLAY	9.8	0.0	
643.9	PLEISTOCENE		CLAY & GRAVEL	4.9	9.8	
639.0	PLEISTOCENE		CLAY	2.1	14.7	& BOULDERS
636.9	CARBONDALE		GRAY SHALE	4.0	16.8	
632.9	CARBONDALE	ST. DAVID	LIMESTONE	0.5	20.8	
632.4	CARBONDALE	TURNER MINE	DARK SHALE	1.3	21.3	
631.1	CARBONDALE	TURNER MINE	DARK SHALE	1.2	22.6	
629.9	CARBONDALE	SPRINGFIELD	COAL	3.8	23.8	
626.1	CARBONDALE		UNDERCLAY	2.4	27.6	

MAPID: 05784385000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109717

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670569

DATE COLLECTED:

SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT30

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.0			UNKNOWN	110.0	0.0	NO COAL

MAPID: 05786381000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120573

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686443

DATE COLLECTED: 3 / 18 / 1985

SURFACE ELEVATION (FT.): 648.8 LOGGED (FT.): 42.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29329

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 31

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.8	PLEISTOCENE		CLAY	3.5	0.0	SHALEY
645.3	PLEISTOCENE		CLAY	2.5	3.5	
642.8	PLEISTOCENE		BOULDER	0.5	6.0	
642.3	PLEISTOCENE		SILTY CLAY	0.5	6.5	DARK GRAY
641.8	PLEISTOCENE		GRAVEL	17.5	7.0	
624.3	CARBONDALE		LIMESTONE	1.5	24.5	
622.8	CARBONDALE		GRAY SHALE	16.0	26.0	

MAPID: 05786382000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120612

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686688

DATE COLLECTED: 3 / 19 / 1985

SURFACE ELEVATION (FT.): 649.5 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29330

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 31

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.5	PLEISTOCENE		UNKNOWN	4.5	0.0	DRILLER LOG SAYS SHALE
645.0	PLEISTOCENE		UNCONSOLIDATED	14.0	4.5	
631.0	PLEISTOCENE		CLAY	3.0	18.5	
628.0	CARBONDALE		GRAY SHALE	3.0	21.5	
625.0	CARBONDALE		DARK SHALE	2.0	24.5	
623.0	CARBONDALE		LIMESTONE	1.9	26.5	
621.1	CARBONDALE		MICACEOUS SHALE	16.6	28.4	

MAPID: 05786383000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120571

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.68702

DATE COLLECTED: 3 / 19 / 1985

SURFACE ELEVATION (FT.): 650.4 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29331

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 31

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.4	PLEISTOCENE		CLAY & SHALE	4.2	0.0	
646.2	PLEISTOCENE		CLAY	17.3	4.2	YELLOW
628.9	CARBONDALE	SPRINGFIELD	COAL	1.3	21.5	TOP ERODED
627.6	CARBONDALE		SHALE/UNDERCLAY	5.7	22.8	
621.9	CARBONDALE		LIMESTONE	1.7	28.5	
620.2	CARBONDALE		MICACEOUS SHALE	9.8	30.2	

MAPID: 05786384000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120611

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687351

DATE COLLECTED: 3 / 19 / 1985

SURFACE ELEVATION (FT.): 653.2 LOGGED (FT.): 30.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29332

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 31

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.2	PLEISTOCENE		CLAY & SHALE	4.5	0.0	
648.7	PLEISTOCENE		CLAY	13.5	4.5	YELLOW
635.2	PLEISTOCENE		CLAY	5.4	18.0	GRAY
629.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.4	23.4	
629.4	CARBONDALE	SPRINGFIELD	COAL	3.9	23.8	
625.5	CARBONDALE		UNDERCLAY	2.3	27.7	

MAPID: 05786385000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120556

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688529

DATE COLLECTED: 3 / 19 / 1985

SURFACE ELEVATION (FT.): 663.5 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29333

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 31

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.5	PLEISTOCENE		CLAY	4.0	0.0	SHALY
659.5	PLEISTOCENE		CLAY	11.1	4.0	
648.4	CARBONDALE		GRAY SHALE	15.1	15.1	
633.3	CARBONDALE	ST. DAVID	LIMESTONE	1.3	30.2	
632.0	CARBONDALE	TURNER MINE	DARK SHALE	0.8	31.5	
631.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	32.3	
630.0	CARBONDALE	SPRINGFIELD	COAL	3.5	33.5	
626.5	CARBONDALE		UNDERCLAY	3.0	37.0	

MAPID: 05786386000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120673

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689417

DATE COLLECTED: 3 / 19 / 1985

SURFACE ELEVATION (FT.): 676.3 LOGGED (FT.): 54.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29334

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 31

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.3	PLEISTOCENE		CLAY & SHALE	4.3	0.0	
672.0	PLEISTOCENE		CLAY	13.2	4.3	
658.8	CARBONDALE		GRAY SHALE	28.0	17.5	
630.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	45.5	
630.3	CARBONDALE	TURNER MINE	DARK SHALE	1.3	46.0	
629.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	47.3	
627.8	CARBONDALE	SPRINGFIELD	COAL	3.7	48.5	
624.1	CARBONDALE		UNDERCLAY	1.8	52.2	

MAPID: 05786391000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120392

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.68723

DATE COLLECTED: 3 / 20 / 1985

SURFACE ELEVATION (FT.): 658.0 LOGGED (FT.): 30.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29339

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 31

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
658.0	PLEISTOCENE		SILTY CLAY	5.0	0.0
653.0	PLEISTOCENE		CLAY	6.0	5.0
647.0	CARBONDALE		GRAY SHALE	9.7	11.0
637.3	CARBONDALE	TURNER MINE	DARK SHALE	0.8	20.7
636.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	21.5
635.3	CARBONDALE	SPRINGFIELD	COAL	3.9	22.7
631.4	CARBONDALE		UNDERCLAY	3.4	26.6

MAPID: 05791464000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 6 / 24 / 1946

SURFACE ELEVATION (FT.): 688.0 LOGGED (FT.): 77.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2337

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.0	PLEISTOCENE		SOIL	1.0	0.0
687.0	PLEISTOCENE		CLAY	26.8	1.0
660.2	PLEISTOCENE			27.8	27.8
632.4			GRAY SHALE	10.2	55.6
622.2			DARK SHALE	5.2	65.8
617.0			LIMESTONE	4.0	71.0
613.0			GRAY SHALE	2.0	75.0

MAPID: 05791465000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465 DATE COLLECTED: 6 / 25 / 1946

SURFACE ELEVATION (FT.): 683.0 LOGGED (FT.): 48.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2340 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
683.0	PLEISTOCENE		SOIL	1.0	0.0
682.0	PLEISTOCENE		CLAY	14.5	1.0
667.5	PLEISTOCENE		CLAY & GRAVEL	22.3	15.5
645.2	CARBONDALE		GRAY SHALE	3.5	37.8
641.7	CARBONDALE		GRAY SANDSTONE	0.3	41.3
641.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	41.6
640.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	42.8
639.2	CARBONDALE	SPRINGFIELD		3.8	43.8
635.4	CARBONDALE		UNDERCLAY	4.0	47.6

MAPID: 05791466000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465 DATE COLLECTED: 6 / 26 / 1946

SURFACE ELEVATION (FT.): 679.0 LOGGED (FT.): 42.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2341 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
679.0	PLEISTOCENE		SOIL	1.0	0.0
678.0	PLEISTOCENE			20.3	1.0
657.7	CARBONDALE		CHERT	2.0	21.3
655.7	CARBONDALE		GRAY SHALE	12.0	23.3
643.7	CARBONDALE		DARK SHALE	1.5	35.3
642.2	CARBONDALE		GRAY SANDSTONE	0.2	36.8
642.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	37.0
640.7	CARBONDALE	SPRINGFIELD		3.8	38.3
636.9	CARBONDALE		UNDERCLAY	0.7	42.1

MAPID: 05791595000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 9 / 21 / 1962

SURFACE ELEVATION (FT.): 680.3 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7818

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.3	PLEISTOCENE		SOIL	1.0	0.0	
679.3	PLEISTOCENE		CLAY	20.9	1.0	
658.4	PLEISTOCENE		CLAY & GRAVEL	4.4	21.9	
654.0	PLEISTOCENE		SAND & GRAVEL	1.8	26.3	
652.2	PLEISTOCENE		CLAY & GRAVEL	17.4	28.1	
634.8	PLEISTOCENE		CLAY	0.8	45.5	BOULD
634.0	PLEISTOCENE		SAND	3.7	46.3	

MAPID: 05791596000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 9 / 24 / 1962

SURFACE ELEVATION (FT.): 681.0 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7824

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.0	PLEISTOCENE		SOIL	1.0	0.0	
680.0	PLEISTOCENE		CLAY	23.4	1.0	
656.6	PLEISTOCENE		SAND & GRAVEL	15.6	24.4	
641.0	PLEISTOCENE		CLAY & GRAVEL	10.0	40.0	

MAPID: 05791597000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 9 / 25 / 1962

SURFACE ELEVATION (FT.): 681.3 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7828

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.3	PLEISTOCENE		SOIL	1.0	0.0	
680.3	PLEISTOCENE		CLAY	21.3	1.0	
659.0	PLEISTOCENE		SAND & GRAVEL	7.0	22.3	
652.0	PLEISTOCENE		CLAY & GRAVEL	20.7	29.3	

MAPID: 05791598000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 9 / 29 / 1962

SURFACE ELEVATION (FT.): 689.2 LOGGED (FT.): 58.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7844

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.2	PLEISTOCENE		SOIL	1.0	0.0	
688.2	PLEISTOCENE		CLAY	18.6	1.0	
669.6	PLEISTOCENE		SAND	3.0	19.6	
666.6	PLEISTOCENE		SAND & GRAVEL	3.0	22.6	
663.6	PLEISTOCENE		CLAY & GRAVEL	13.9	25.6	
649.7	PLEISTOCENE		CLAY	2.0	39.5	BOULD
647.7	PLEISTOCENE		CLAY	3.0	41.5	AND BOULDERS
644.7	PLEISTOCENE		CLAY & GRAVEL	10.6	44.5	
634.1	PLEISTOCENE		GRAY SHALE	2.9	55.1	

MAPID: 05791599000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 2 / 1962

SURFACE ELEVATION (FT.): 690.7 LOGGED (FT.): 56.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7851

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.7	PLEISTOCENE		SOIL	1.0	0.0	
689.7	PLEISTOCENE		CLAY	18.6	1.0	
671.1	PLEISTOCENE		CLAY & GRAVEL	6.0	19.6	YEL
665.1	PLEISTOCENE		CLAY & GRAVEL	5.6	25.6	GRAY
659.5	PLEISTOCENE		CLAY	0.7	31.2	BOULD
658.8	PLEISTOCENE		CLAY & GRAVEL	8.3	31.9	
650.5	CARBONDALE		GRAY SHALE	7.0	40.2	
643.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	47.2	
643.1	CARBONDALE	TURNER MINE	DARK SHALE	1.6	47.6	
641.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	49.2	
640.3	CARBONDALE	SPRINGFIELD	COAL	3.7	50.4	
636.6	CARBONDALE		UNDERCLAY	1.9	54.1	

MAPID: 0579160000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 2 / 1962

SURFACE ELEVATION (FT.): 690.1 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7852

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
690.1	PLEISTOCENE		SOIL	1.0	0.0
689.1	PLEISTOCENE		CLAY	22.4	1.0
666.7	PLEISTOCENE		CLAY & GRAVEL	17.8	23.4
648.9	CARBONDALE		GRAY SHALE	5.0	41.2
643.9	CARBONDALE	TURNER MINE	DARK SHALE	1.6	46.2
642.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	47.8
640.9	CARBONDALE	SPRINGFIELD	COAL	3.7	49.2
637.2	CARBONDALE		UNDERCLAY	2.1	52.9

MAPID: 05791601000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 3 / 1962

SURFACE ELEVATION (FT.): 690.1 LOGGED (FT.): 53.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7853

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
690.1	PLEISTOCENE		SOIL	1.0	0.0
689.1	PLEISTOCENE		CLAY	24.1	1.0
665.0	PLEISTOCENE		CLAY & GRAVEL	20.7	25.1
644.3	CARBONDALE	TURNER MINE	DARK SHALE	1.0	45.8
643.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	46.8
642.2	CARBONDALE	SPRINGFIELD	COAL	3.6	47.9
638.6	CARBONDALE		UNDERCLAY	1.5	51.5

MAPID: 05791602000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 3 / 1962

SURFACE ELEVATION (FT.): 689.7 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7854

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.7	PLEISTOCENE		SOIL	1.0	0.0	
688.7	PLEISTOCENE		CLAY	23.6	1.0	
665.1	PLEISTOCENE		CLAY & GRAVEL	35.4	24.6	

MAPID: 05791603000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 4 / 1962

SURFACE ELEVATION (FT.): 689.5 LOGGED (FT.): 52.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7855

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.5	PLEISTOCENE		SOIL	1.0	0.0	
688.5	PLEISTOCENE		CLAY	28.8	1.0	
659.7	PLEISTOCENE		CLAY & GRAVEL	17.1	29.8	
642.6	CARBONDALE	SPRINGFIELD	COAL	3.0	46.9	SOFT BROKEN; TOP ERODED
639.6	CARBONDALE		UNDERCLAY	2.1	49.9	

MAPID: 05791604000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465 DATE COLLECTED: 10 / 4 / 1962

SURFACE ELEVATION (FT.): 690.6 LOGGED (FT.): 51.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7856 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.6	PLEISTOCENE		SOIL	1.0	0.0	
689.6	PLEISTOCENE		CLAY	25.5	1.0	
664.1	PLEISTOCENE		CLAY & GRAVEL	10.4	26.5	
653.7	CARBONDALE		BROWN SHALE	2.5	36.9	
651.2	CARBONDALE		GRAY SHALE	3.5	39.4	
647.7	CARBONDALE	ST. DAVID	LIMESTONE	0.3	42.9	
647.4	CARBONDALE	TURNER MINE	DARK SHALE	1.8	43.2	
645.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	45.0	
644.4	CARBONDALE	SPRINGFIELD	COAL	3.6	46.2	
640.8	CARBONDALE		UNDERCLAY	1.2	49.8	

MAPID: 05791605000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465 DATE COLLECTED: 10 / 4 / 1962

SURFACE ELEVATION (FT.): 690.1 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7857 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.1	PLEISTOCENE		SOIL	1.0	0.0	
689.1	PLEISTOCENE		CLAY	19.9	1.0	
669.2	PLEISTOCENE		CLAY, SAND & GRAVEL	10.6	20.9	
658.6	PLEISTOCENE		CLAY & GRAVEL	14.0	31.5	
644.6	CARBONDALE	SPRINGFIELD	COAL	1.0	45.5	BLOOM; TOP ERODED
643.6	CARBONDALE	SPRINGFIELD	COAL	2.0	46.5	VERY SOFT
641.6	CARBONDALE		UNDERCLAY	1.5	48.5	

MAPID: 05791606000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 4 / 1962

SURFACE ELEVATION (FT.): 690.0 LOGGED (FT.): 50.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7858

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.0	PLEISTOCENE		SOIL	1.0	0.0	
689.0	PLEISTOCENE		CLAY	19.0	1.0	
670.0	PLEISTOCENE		CLAY & GRAVEL	4.0	20.0	
666.0	PLEISTOCENE		CLAY	0.9	24.0	BOULD
665.1	PLEISTOCENE		CLAY	5.9	24.9	AND BOULDERS
659.2	PLEISTOCENE		CLAY & GRAVEL	11.7	30.8	
647.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	42.5	
647.1	CARBONDALE	TURNER MINE	DARK SHALE	1.4	42.9	
645.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	44.3	
644.6	CARBONDALE	SPRINGFIELD	COAL	3.8	45.4	
640.8	CARBONDALE		UNDERCLAY	1.0	49.2	

MAPID: 05791607000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 4 / 1962

SURFACE ELEVATION (FT.): 689.9 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7859

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.9	PLEISTOCENE		SOIL	1.0	0.0	
688.9	PLEISTOCENE		CLAY	15.9	1.0	
673.0	PLEISTOCENE		CLAY & GRAVEL	19.2	16.9	
653.8	CARBONDALE		SANDY SHALE	1.9	36.1	
651.9	CARBONDALE		GRAY SHALE	3.5	38.0	
648.4	CARBONDALE	ST. DAVID	LIMESTONE	0.3	41.5	
648.1	CARBONDALE	TURNER MINE	DARK SHALE	1.6	41.8	
646.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	43.4	
645.1	CARBONDALE	SPRINGFIELD	COAL	3.8	44.8	
641.3	CARBONDALE		UNDERCLAY	1.4	48.6	

MAPID: 05791608000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 5 / 1962

SURFACE ELEVATION (FT.): 689.5 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7860

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.5	PLEISTOCENE		SOIL	1.0	0.0	
688.5	PLEISTOCENE		CLAY	25.6	1.0	
662.9	PLEISTOCENE		CLAY, SAND & GRAVEL	13.0	26.6	
649.9	PLEISTOCENE		CLAY & GRAVEL	8.6	39.6	
641.3	CARBONDALE	SPRINGFIELD	COAL	0.4	48.2	SOFT BROKEN; TOP ERODED
640.9	CARBONDALE		UNDERCLAY	1.4	48.6	

MAPID: 05791609000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 5 / 1962

SURFACE ELEVATION (FT.): 685.1 LOGGED (FT.): 48.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7861

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.1	PLEISTOCENE		SOIL	1.0	0.0	
684.1	PLEISTOCENE		CLAY & GRAVEL	24.5	1.0	YEL
659.6	PLEISTOCENE		CLAY & GRAVEL	15.4	25.5	GRAY
644.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	40.9	
643.2	CARBONDALE	SPRINGFIELD	COAL	3.7	41.9	SOFT
639.5	CARBONDALE		UNDERCLAY	2.4	45.6	

MAPID: 0579161000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 5 / 1962

SURFACE ELEVATION (FT.): 688.5 LOGGED (FT.): 50.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7862

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.5	PLEISTOCENE		SOIL	1.0	0.0	
687.5	PLEISTOCENE		CLAY & GRAVEL	24.6	1.0	
662.9	PLEISTOCENE		CLAY & GRAVEL	11.6	25.6	
651.3	PLEISTOCENE			9.4	37.2	
641.9	CARBONDALE	SPRINGFIELD	COAL	2.6	46.6	TOP ERODED
639.3	CARBONDALE		UNDERCLAY	1.0	49.2	

MAPID: 05791611000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 5 / 1962

SURFACE ELEVATION (FT.): 684.7 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7863

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.7	PLEISTOCENE		SOIL	1.0	0.0	
683.7	PLEISTOCENE		CLAY	22.8	1.0	
660.9	PLEISTOCENE		CLAY & GRAVEL	5.9	23.8	
655.0	PLEISTOCENE		CLAY	0.8	29.7	BOULD
654.2	PLEISTOCENE		CLAY & GRAVEL	10.5	30.5	
643.7	CARBONDALE		SHALE	1.6	41.0	SOFT
642.1	CARBONDALE	SPRINGFIELD	COAL	3.7	42.6	SOFT
638.4	CARBONDALE		UNDERCLAY	1.7	46.3	
636.7	CARBONDALE		LIMESTONE	0.8	48.0	
635.9	CARBONDALE		GRAY SHALE	1.2	48.8	

MAPID: 05791612000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465 DATE COLLECTED: 10 / 5 / 1962

SURFACE ELEVATION (FT.): 687.6 LOGGED (FT.): 50.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7864 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.6	PLEISTOCENE		SOIL	1.0	0.0	
686.6	PLEISTOCENE		CLAY	23.9	1.0	
662.7	PLEISTOCENE		CLAY & GRAVEL	6.8	24.9	
655.9	PLEISTOCENE		CLAY	0.4	31.7	BOULD
655.5	PLEISTOCENE		CLAY & GRAVEL	3.4	32.1	
652.1	PLEISTOCENE		CLAY	11.8	35.5	
640.3	CARBONDALE	SPRINGFIELD	COAL	1.8	47.3	SOFT; TOP ERODED
638.5	CARBONDALE		UNDERCLAY	1.0	49.1	

MAPID: 05791613000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465 DATE COLLECTED: 10 / 6 / 1962

SURFACE ELEVATION (FT.): 685.6 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7865 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.6	PLEISTOCENE		SOIL	1.0	0.0	
684.6	PLEISTOCENE		CLAY & GRAVEL	22.1	1.0	
662.5	PLEISTOCENE		SAND & GRAVEL	7.9	23.1	
654.6	PLEISTOCENE		CLAY	0.6	31.0	BOULD
654.0	PLEISTOCENE			2.0	31.6	
652.0	PLEISTOCENE		CLAY & GRAVEL	1.9	33.6	
650.1	CARBONDALE		GRAY SHALE	6.2	35.5	
643.9	CARBONDALE	ST. DAVID	LIMESTONE	0.3	41.7	
643.6	CARBONDALE	TURNER MINE	DARK SHALE	1.0	42.0	
642.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	43.0	
641.6	CARBONDALE	SPRINGFIELD	COAL	3.6	44.0	
638.0	CARBONDALE		UNDERCLAY	2.4	47.6	

MAPID: 05791614000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 6 / 1962

SURFACE ELEVATION (FT.): 686.0 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7866

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
686.0	PLEISTOCENE		SOIL	1.0	0.0	
685.0	PLEISTOCENE		CLAY	24.6	1.0	
660.4	PLEISTOCENE		SAND & GRAVEL	5.6	25.6	
654.8	PLEISTOCENE			15.2	31.2	
639.6	CARBONDALE	SPRINGFIELD	COAL	0.8	46.4	TOP ERODED; SOFT BROKEN
638.8	CARBONDALE		UNDERCLAY	1.8	47.2	
637.0	CARBONDALE		GRAY SHALE	1.0	49.0	

MAPID: 05791615000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 8 / 1962

SURFACE ELEVATION (FT.): 681.1 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7867

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.1	PLEISTOCENE		SOIL	1.0	0.0	
680.1	PLEISTOCENE		CLAY	20.5	1.0	
659.6	PLEISTOCENE		CLAY & GRAVEL	2.5	21.5	
657.1	PLEISTOCENE		SAND & GRAVEL	9.5	24.0	
647.6	PLEISTOCENE			5.8	33.5	GREEN
641.8	PLEISTOCENE			5.7	39.3	GRAY
636.1			GRAY SHALE	5.0	45.0	

MAPID: 05791616000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 8 / 1962

SURFACE ELEVATION (FT.): 677.5 LOGGED (FT.): 40.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7868

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.5	PLEISTOCENE		SOIL	1.0	0.0	
676.5	PLEISTOCENE		CLAY & GRAVEL	14.3	1.0	YEL
662.2	PLEISTOCENE		CLAY & GRAVEL	4.2	15.3	GRAY
658.0	PLEISTOCENE		SAND & GRAVEL	5.9	19.5	
652.1	PLEISTOCENE			2.5	25.4	
649.6	CARBONDALE		GRAY SHALE	5.0	27.9	
644.6	CARBONDALE	ST. DAVID	LIMESTONE	0.2	32.9	
644.4	CARBONDALE	TURNER MINE	DARK SHALE	1.3	33.1	
643.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	34.4	
641.8	CARBONDALE	SPRINGFIELD	COAL	3.8	35.7	AND HORSEBACK TRACE
638.0	CARBONDALE		UNDERCLAY	1.0	39.5	

MAPID: 05791617000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 8 / 1962

SURFACE ELEVATION (FT.): 675.2 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7869

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.2	PLEISTOCENE		SOIL	1.0	0.0	
674.2	PLEISTOCENE		CLAY	11.6	1.0	
662.6	PLEISTOCENE		CLAY & GRAVEL	5.7	12.6	
656.9	PLEISTOCENE		SAND & GRAVEL	4.7	18.3	
652.2	PLEISTOCENE			3.7	23.0	
648.5	CARBONDALE		GRAY SHALE	4.2	26.7	
644.3	CARBONDALE	ST. DAVID	LIMESTONE	0.3	30.9	
644.0	CARBONDALE	TURNER MINE	DARK SHALE	1.6	31.2	
642.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	32.8	
641.4	CARBONDALE	SPRINGFIELD	COAL	1.0	33.8	HORSEBACK TRACES
640.4	CARBONDALE	SPRINGFIELD	COAL	2.7	34.8	
637.7	CARBONDALE		UNDERCLAY	1.5	37.5	
636.2	CARBONDALE		LIMESTONE	1.0	39.0	

MAPID: 05791618000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 8 / 1962

SURFACE ELEVATION (FT.): 677.2 LOGGED (FT.): 39.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7870

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.2	PLEISTOCENE		SOIL	1.0	0.0	
676.2	PLEISTOCENE		CLAY	15.5	1.0	
660.7	PLEISTOCENE		CLAY & GRAVEL	3.2	16.5	
657.5	PLEISTOCENE		SAND & GRAVEL	6.3	19.7	
651.2	PLEISTOCENE		CLAY	1.0	26.0	BOULD
650.2	PLEISTOCENE		SAND & GRAVEL	12.7	27.0	

MAPID: 05791619000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 9 / 1962

SURFACE ELEVATION (FT.): 674.8 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7871

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.8	PLEISTOCENE		SOIL	1.0	0.0	
673.8	PLEISTOCENE		CLAY	12.8	1.0	
661.0	PLEISTOCENE		CLAY & GRAVEL	8.8	13.8	
652.2	PLEISTOCENE		CLAY	13.3	22.6	
638.9			GRAY SHALE	8.7	35.9	
630.2			LIMESTONE	0.4	44.6	

MAPID: 05791620000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 10 / 9 / 1962

SURFACE ELEVATION (FT.): 680.7 LOGGED (FT.): 45.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7872

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.7	PLEISTOCENE		SOIL	1.0	0.0	
679.7	PLEISTOCENE		CLAY	22.2	1.0	YEL
657.5	PLEISTOCENE		CLAY	9.1	23.2	GRAY
648.4	PLEISTOCENE		GRAY SHALE	4.9	32.3	
643.5	CARBONDALE	ST. DAVID	LIMESTONE	0.2	37.2	
643.3	CARBONDALE	TURNER MINE	DARK SHALE	1.6	37.4	
641.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	39.0	
640.5	CARBONDALE	SPRINGFIELD	COAL	3.8	40.2	
636.7	CARBONDALE		UNDERCLAY	1.8	44.0	

MAPID: 05791678000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 9 / 25 / 1962

SURFACE ELEVATION (FT.): 681.5 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7830

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.5	PLEISTOCENE		SOIL	1.0	0.0	
680.5	PLEISTOCENE		CLAY & GRAVEL	20.8	1.0	YEL
659.7	PLEISTOCENE		CLAY & GRAVEL	3.6	21.8	GRAY
656.1	PLEISTOCENE		SAND & GRAVEL	1.8	25.4	
654.3	PLEISTOCENE		CLAY & GRAVEL	7.7	27.2	
646.6	PLEISTOCENE		CLAY	4.5	34.9	
642.2	PLEISTOCENE		CLAY	1.0	39.3	BOULD
641.2	PLEISTOCENE		CLAY & GRAVEL	14.6	40.3	

MAPID: 05791684000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691465

DATE COLLECTED: 4 / 16 / 1975

SURFACE ELEVATION (FT.): 686.4 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22764

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
686.4	PLEISTOCENE		SOIL	1.0	0.0
685.4	PLEISTOCENE		CLAY	21.0	1.0
664.4	PLEISTOCENE		CLAY & GRAVEL	11.0	22.0
653.4	PLEISTOCENE		SAND & GRAVEL	10.0	33.0
643.4	PLEISTOCENE		CLAY	3.0	43.0
640.4	CARBONDALE		DARK SHALE	9.6	46.0
630.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	55.6
630.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	56.0
628.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	58.3
627.4	CARBONDALE	SPRINGFIELD	COAL	3.6	59.0
623.8	CARBONDALE		UNDERCLAY	2.4	62.6

MAPID: 05701803000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES: 40' N line, 1320' E line of SW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.115282 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.691351 DATE COLLECTED: 11 / 4 / 1958

SURFACE ELEVATION (FT.): 705.6 LOGGED (FT.): 84.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.6			UNCONSOLIDATED	17.6	0.0	
688.0	CARBONDALE	HERRIN	COAL	2.0	17.6	ERODED
686.0	CARBONDALE		UNDERCLAY	1.4	19.6	
684.6	CARBONDALE		GRAY SHALE	2.1	21.0	
682.5	CARBONDALE	VERMILIONVILLE	SANDSTONE	5.7	23.1	
676.8	CARBONDALE		SHALE & SANDSTONE	21.0	28.8	
655.8	CARBONDALE		GRAY SHALE	3.0	49.8	
652.8	CARBONDALE		LIMESTONE	0.2	52.8	
652.6	CARBONDALE		GRAY SHALE	6.8	53.0	
645.8	CARBONDALE		SANDSTONE	8.4	59.8	
637.4	CARBONDALE	CANTON	GRAY SHALE	7.9	68.2	
629.5	CARBONDALE	ST. DAVID	LIMESTONE	0.6	76.1	
628.9	CARBONDALE	TURNER MINE	SHALE	1.0	76.7	DARK
627.9	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	77.7	BK. FIS
625.9	CARBONDALE	SPRINGFIELD	COAL	3.7	79.7	
622.2	CARBONDALE		UNDERCLAY	1.0	83.4	

MAPID: 05723042000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES: 2280' S line, 2220' E line

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109094 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.690428 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 79.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. 29221 WELL TYPE: Coal Test

COMMENT: PERMIT 170; RAPATEE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		SOIL	1.0	0.0	
-	PLEISTOCENE		CLAY	21.0	1.0	
-	CARBONDALE		SANDSTONE	2.0	22.0	
-	CARBONDALE		GRAY SHALE	46.8	24.0	
-	CARBONDALE	ST. DAVID	LIMESTONE	0.4	70.8	
-	CARBONDALE	TURNER MINE	SHALE	0.8	71.2	DARK
-	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	72.0	
-	CARBONDALE	SPRINGFIELD	COAL	4.1	73.6	
-	CARBONDALE		UNDERCLAY	1.3	77.7	

MAPID: 05723049000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES: 2040' S line, 920' E line

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104395 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.689729 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 57.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. 29230 WELL TYPE: Coal Test

COMMENT: PERMIT 170; RAPATEE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		SOIL	1.0	0.0	
-	PLEISTOCENE		CLAY	28.2	1.0	
-	CARBONDALE		GRAY SHALE	20.0	29.2	
-	CARBONDALE	ST. DAVID	LIMESTONE	0.5	49.2	
-	CARBONDALE	TURNER MINE	SHALE	1.6	49.7	DARK
-	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	51.3	
-	CARBONDALE	SPRINGFIELD	COAL	3.8	52.2	
-	CARBONDALE		UNDERCLAY	1.0	56.0	

MAPID: 05724707000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES: 2000' S line, 1320' W line

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.115221 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.689707 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 55.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. 2492 WELL TYPE: Coal Test

COMMENT: PERMIT 170; RAPATEE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		SOIL	1.0	0.0	
-	PLEISTOCENE		CLAY	11.3	1.0	
-	PLEISTOCENE		SAND & GRAVEL	9.0	12.3	
-	PLEISTOCENE		CLAY	3.7	21.3	
-	CARBONDALE		GRAY SHALE	10.3	25.0	
-	CARBONDALE		GRAY SHALE	12.2	35.3	DARK
-	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	47.5	
-	CARBONDALE	SPRINGFIELD	COAL	3.9	50.5	
-	CARBONDALE		UNDERCLAY	0.9	54.4	

MAPID: 05724708000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES: 800' S line, 360' W line

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118772 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.686428 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 66.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. 2503 WELL TYPE: Coal Test

COMMENT: PERMIT 170; RAPATEE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		SOIL	1.0	0.0	
-	PLEISTOCENE		CLAY	34.7	1.0	
-	CARBONDALE		GRAY SHALE	5.3	35.7	
-	CARBONDALE		GRAY SHALE	18.3	41.0	DARK
-	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	59.3	
-	CARBONDALE	SPRINGFIELD	COAL	3.9	61.0	
-	CARBONDALE		UNDERCLAY	1.1	64.9	

MAPID: 05724709000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES: 1680' N line, 1240' W line

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.115408 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.694101 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 111.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. 26987 WELL TYPE: Coal Test

COMMENT: PERMIT 170; RAPATEE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			MINE OPENING	46.4	0.0	SPOILS
-	CARBONDALE		GRAY SHALE	5.6	46.4	
-	CARBONDALE		SANDSTONE	8.5	52.0	
-	CARBONDALE		GRAY SHALE	6.5	60.5	
-	CARBONDALE		LIMESTONE	1.2	67.0	
-	CARBONDALE		SHALE & SANDSTONE	6.3	68.2	
-	CARBONDALE		SANDSTONE	3.5	74.5	
-	CARBONDALE		GRAY SHALE	10.6	78.0	
-	CARBONDALE		SHALE & SANDSTONE	14.2	88.6	
-	CARBONDALE	ST. DAVID	LIMESTONE	0.6	102.8	
-	CARBONDALE	TURNER MINE	SHALE	2.4	103.4	DARK
-	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	105.8	
-	CARBONDALE	SPRINGFIELD	COAL	3.4	106.7	
-	CARBONDALE		UNDERCLAY	1.8	110.1	

MAPID: 05724710000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES: 1880' N line, 1590' E line

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106758 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.693422 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 110.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. 26991 WELL TYPE: Coal Test

COMMENT: PERMIT 270; RAPATEE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			MINE OPENING	33.0	0.0	SPOILS
-	CARBONDALE		GRAY SHALE	14.6	33.0	
-	CARBONDALE		LIMESTONE	1.0	47.6	
-	CARBONDALE		GRAY SHALE	23.4	48.6	
-	CARBONDALE		SANDSTONE	15.2	72.0	
-	CARBONDALE		GRAY SHALE	13.4	87.2	DARK
-	CARBONDALE	ST. DAVID	LIMESTONE	0.5	100.6	
-	CARBONDALE	TURNER MINE	SHALE	1.9	101.1	DARK
-	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	103.0	
-	CARBONDALE	SPRINGFIELD	COAL	3.5	104.0	
-	CARBONDALE		UNDERCLAY	2.5	107.5	

MAPID: 05724711000C VERSION: 1

PROJECT: LUMP

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES: 280' N line, 1040' W line

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116044 GEOLOGIST: J. MCBETH

CONFIDENTIAL: N LATITUDE: 40.697971 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 105.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. 27092 WELL TYPE: Coal Test

COMMENT: PERMIT 170; RAPATEE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			MINE OPENING	37.8	0.0	SPOILS
-	CARBONDALE		UNDERCLAY	1.7	37.8	
-	CARBONDALE		SANDSTONE	43.2	39.5	
-	CARBONDALE		GRAY SHALE	13.2	82.7	DARK
-	CARBONDALE	ST. DAVID	LIMESTONE	0.5	95.9	
-	CARBONDALE	TURNER MINE	SHALE	2.0	96.4	DARK
-	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	98.4	
-	CARBONDALE	SPRINGFIELD	COAL	3.7	99.3	
-	CARBONDALE		UNDERCLAY	2.0	103.0	

MAPID: 05724712000C **VERSION:** 1 **PROJECT:** LUMP
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 12 **QUARTERS/FOOTAGES:** 260' N line, 2660' W line
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.110172 **GEOLOGIST:** J. MCBETH
CONFIDENTIAL: N **LATITUDE:** 40.69794 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 118.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. 27100 **WELL TYPE:** Coal Test
COMMENT: PERMIT 170; RAPATEE MINE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			MINE OPENING	53.5	0.0	SPOILS
-	CARBONDALE		UNDERCLAY	1.7	53.5	
-	CARBONDALE		SHALE & SANDSTONE	39.7	55.2	
-	CARBONDALE		GRAY SHALE	13.7	94.9	DARK
-	CARBONDALE	ST. DAVID	LIMESTONE	0.6	108.6	
-	CARBONDALE	TURNER MINE	SHALE	2.2	109.2	DARK
-	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	111.4	
-	CARBONDALE	SPRINGFIELD	COAL	3.7	112.3	
-	CARBONDALE		UNDERCLAY	2.0	116.0	

MAPID: 05760034000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 12 **QUARTERS/FOOTAGES:** 245' N line, 90' W line of SW NW
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.119565 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.694477 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 700.0 **LOGGED (FT.):** 32.4 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.6	CARBONDALE	HERRIN	COAL	5.0	27.4	

MAPID: 05760043000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 12 **QUARTERS/FOOTAGES:** 15' N line, 15' W line of SW NE
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.110371 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.69499 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 720.0 **LOGGED (FT.):** 45.8 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.7	CARBONDALE	HERRIN	COAL	4.5	41.3	

MAPID: 05784019000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119992

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686645

DATE COLLECTED: 6 / 27 / 1963

SURFACE ELEVATION (FT.): 673.4 LOGGED (FT.): 49.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8455

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
673.4	PLEISTOCENE		SOIL	1.0	0.0	
672.4	PLEISTOCENE		CLAY & GRAVEL	20.9	1.0	YELLOW
651.5	PLEISTOCENE		CLAY & GRAVEL	17.5	21.9	GRAY
634.0	PLEISTOCENE		CLAY	5.1	39.4	& BOULDERS
628.9	CARBONDALE		GRAY SHALE	2.1	44.5	
626.8	CARBONDALE		LIMESTONE	1.6	46.6	
625.2	CARBONDALE		GRAY SHALE	1.4	48.2	

MAPID: 05784020000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119951

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686918

DATE COLLECTED: 6 / 27 / 1963

SURFACE ELEVATION (FT.): 672.8 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8456

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.8	PLEISTOCENE		SOIL	1.0	0.0	
671.8	PLEISTOCENE		SANDY CLAY	15.0	1.0	
656.8	CARBONDALE		BROWN SHALE	3.6	16.0	
653.2	CARBONDALE		GRAY SHALE	16.8	19.6	
636.4	CARBONDALE	ST. DAVID	LIMESTONE	0.3	36.4	
636.1	CARBONDALE	TURNER MINE	DARK SHALE	1.3	36.7	
634.8	CARBONDALE	TURNER MINE	DARK SHALE	1.4	38.0	
633.4	CARBONDALE	SPRINGFIELD	COAL	3.9	39.4	
629.5	PLEISTOCENE		UNDERCLAY	1.7	43.3	

MAPID: 05784021000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11967 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.68674 DATE COLLECTED: 6 / 28 / 1963

SURFACE ELEVATION (FT.): 681.2 LOGGED (FT.): 52.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8457 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.2	PLEISTOCENE		SOIL	1.0	0.0
680.2	PLEISTOCENE		SANDY CLAY	19.3	1.0
660.9	CARBONDALE		SANDY SHALE	3.0	20.3
657.9	CARBONDALE		GRAY SHALE	21.3	23.3
636.6	CARBONDALE	ST. DAVID	LIMESTONE	0.3	44.6
636.3	CARBONDALE	TURNER MINE	DARK SHALE	1.3	44.9
635.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	46.2
634.0	CARBONDALE	SPRINGFIELD	COAL	3.9	47.2
630.1	CARBONDALE		UNDERCLAY	1.0	51.1

MAPID: 05784022000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119697 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6865 DATE COLLECTED: 6 / 28 / 1963

SURFACE ELEVATION (FT.): 679.1 LOGGED (FT.): 49.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8458 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
679.1	PLEISTOCENE		SOIL	1.0	0.0
678.1	PLEISTOCENE		CLAY & GRAVEL	20.1	1.0
658.0	PLEISTOCENE		SANDY CLAY	5.6	21.1
652.4	CARBONDALE		GRAY SHALE	14.4	26.7
638.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	41.1
637.6	CARBONDALE	TURNER MINE	DARK SHALE	1.2	41.5
636.4	CARBONDALE	TURNER MINE	DARK SHALE	1.0	42.7
635.4	CARBONDALE	SPRINGFIELD	COAL	3.5	43.7
631.9	CARBONDALE		UNDERCLAY	1.8	47.2

MAPID: 05784023000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119974

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686292

DATE COLLECTED: 6 / 28 / 1963

SURFACE ELEVATION (FT.): 669.3 LOGGED (FT.): 46.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8459

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.3	PLEISTOCENE		CLAY & GRAVEL	16.1	0.0	
653.2	PLEISTOCENE		SANDY CLAY	23.4	16.1	
629.8	PLEISTOCENE		CLAY	2.5	39.5	
627.3	PLEISTOCENE		CLAY	2.0	42.0	& BOULDERS
625.3	CARBONDALE		GRAY SHALE	2.8	44.0	

MAPID: 05784024000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119622

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686211

DATE COLLECTED: 6 / 28 / 1963

SURFACE ELEVATION (FT.): 680.4 LOGGED (FT.): 50.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8460

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.4	PLEISTOCENE		CLAY & GRAVEL	19.5	0.0	
660.9	PLEISTOCENE		SANDY CLAY	1.4	19.5	
659.5	CARBONDALE		GRAY SHALE	21.5	20.9	
638.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	42.4	
637.5	CARBONDALE	TURNER MINE	DARK SHALE	1.4	42.9	
636.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	44.3	
634.7	CARBONDALE	SPRINGFIELD	COAL	3.8	45.7	
630.9	CARBONDALE		UNDERCLAY	1.0	49.5	

MAPID: 05784025000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119888

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686014

DATE COLLECTED: 6 / 28 / 1963

SURFACE ELEVATION (FT.): 668.3 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8461

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.3	PLEISTOCENE		SANDY CLAY	9.5	0.0	
658.8	PLEISTOCENE		SAND	3.8	9.5	
655.0	PLEISTOCENE		CLAY	1.5	13.3	& BOLDERS
653.5	PLEISTOCENE		CLAY, SAND & GRAVEL	14.3	14.8	
639.2	PLEISTOCENE		SANDY CLAY	2.0	29.1	
637.2	CARBONDALE		SHALE	0.9	31.1	SOFT
636.3	CARBONDALE	ST. DAVID	LIMESTONE	0.3	32.0	
636.0	CARBONDALE	TURNER MINE	DARK SHALE	1.0	32.3	SOFT
635.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	33.3	SOFT
634.0	CARBONDALE	SPRINGFIELD	COAL	3.8	34.3	SOFT
630.2	CARBONDALE		UNDERCLAY	1.9	38.1	

MAPID: 05784026000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119565

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685949

DATE COLLECTED: 7 / 15 / 1963

SURFACE ELEVATION (FT.): 679.3 LOGGED (FT.): 51.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8462

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.3	PLEISTOCENE		CLAY & GRAVEL	12.6	0.0	
666.7	PLEISTOCENE		SAND	3.0	12.6	
663.7	PLEISTOCENE		CLAY, SAND & GRAVEL	8.8	15.6	
654.9	CARBONDALE		GRAY SHALE	18.1	24.4	
636.8	CARBONDALE	ST. DAVID	LIMESTONE	0.6	42.5	
636.2	CARBONDALE	TURNER MINE	DARK SHALE	1.5	43.1	
634.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	44.6	
632.9	CARBONDALE	SPRINGFIELD	COAL	3.8	46.4	
629.1	CARBONDALE		UNDERCLAY	1.0	50.2	

MAPID: 05784027000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119879

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685779

DATE COLLECTED: 7 / 15 / 1963

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8463

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
660.0	PLEISTOCENE		CLAY & GRAVEL	9.4	0.0
650.6	PLEISTOCENE		CLAY, SAND & GRAVEL	10.5	9.4
640.1	PLEISTOCENE		CLAY & GRAVEL	14.4	19.9
625.7	PLEISTOCENE		BOULDER	1.5	34.3
624.2			GRAY SHALE	4.2	35.8

MAPID: 05784028000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11961

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685736

DATE COLLECTED: 7 / 15 / 1963

SURFACE ELEVATION (FT.): 672.2 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8464

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
672.2	PLEISTOCENE		CLAY & GRAVEL	16.6	0.0
655.6	PLEISTOCENE		CLAY, SAND & GRAVEL	9.4	16.6
646.2	PLEISTOCENE		CLAY & GRAVEL	19.6	26.0
626.6	CARBONDALE	SPRINGFIELD	CLAY & COAL	2.0	45.6 TOP ERODED
624.6	CARBONDALE		LIMESTONE	0.8	47.6
623.8	CARBONDALE		GRAY SHALE	1.6	48.4

MAPID: 05784029000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119263

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685777

DATE COLLECTED: 7 / 15 / 1963

SURFACE ELEVATION (FT.): 680.4 LOGGED (FT.): 52.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8465

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.4	PLEISTOCENE		SOIL	1.0	0.0
679.4	PLEISTOCENE		SANDY CLAY	19.8	1.0
659.6	PLEISTOCENE		CLAY & GRAVEL	2.6	20.8
657.0	PLEISTOCENE		CLAY, SAND & GRAVEL	17.2	23.4
639.8	CARBONDALE		GRAY SHALE	4.8	40.6
635.0	CARBONDALE	TURNER MINE	DARK SHALE	1.0	45.4
634.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	46.4
633.0	CARBONDALE	SPRINGFIELD	COAL	3.8	47.4
629.2	CARBONDALE		UNDERCLAY	1.0	51.2

MAPID: 05784030000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119373

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685506

DATE COLLECTED: 7 / 15 / 1963

SURFACE ELEVATION (FT.): 674.3 LOGGED (FT.): 47.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8466

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
674.3	PLEISTOCENE		SOIL	1.0	0.0
673.3	PLEISTOCENE		CLAY & GRAVEL	15.6	1.0
657.7	PLEISTOCENE		SAND	12.0	16.6
645.7	PLEISTOCENE		CLAY, SAND & GRAVEL	18.4	28.6

MAPID: 05784031000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119025

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685552

DATE COLLECTED: 7 / 16 / 1963

SURFACE ELEVATION (FT.): 676.9 LOGGED (FT.): 48.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8467

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.9	PLEISTOCENE		SOIL	1.0	0.0	
675.9	PLEISTOCENE		SAND & GRAVEL	23.7	1.0	
652.2	PLEISTOCENE		SAND & GRAVEL	14.0	24.7	
638.2	PLEISTOCENE		CLAY & GRAVEL	4.8	38.7	
633.4	CARBONDALE	SPRINGFIELD	COAL	3.8	43.5	SOFT; TOP ERODED
629.6	CARBONDALE		UNDERCLAY	1.0	47.3	

MAPID: 05784032000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118901

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685801

DATE COLLECTED: 7 / 16 / 1963

SURFACE ELEVATION (FT.): 680.7 LOGGED (FT.): 48.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8468

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.7	PLEISTOCENE		SOIL	1.0	0.0	
679.7	PLEISTOCENE		SANDY CLAY	21.6	1.0	
658.1	PLEISTOCENE		SAND	3.8	22.6	
654.3	PLEISTOCENE		SAND & GRAVEL	22.0	26.4	

MAPID: 05784033000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119098

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686012

DATE COLLECTED: 7 / 16 / 1963

SURFACE ELEVATION (FT.): 684.9 LOGGED (FT.): 56.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8469

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.9	PLEISTOCENE		SOIL	1.0	0.0
683.9	PLEISTOCENE		SANDY CLAY	19.5	1.0
664.4	PLEISTOCENE		CLAY & GRAVEL	9.0	20.5
655.4	CARBONDALE		GRAY SHALE	10.1	29.5
645.3	CARBONDALE		LIMESTONE	0.4	39.6
644.9	CARBONDALE		GRAY SHALE	8.3	40.0
636.6	CARBONDALE	ST. DAVID	LIMESTONE	0.7	48.3
635.9	CARBONDALE	TURNER MINE	DARK SHALE	1.3	49.0
634.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	50.3
633.6	CARBONDALE	SPRINGFIELD	COAL	3.9	51.3
629.7	CARBONDALE		UNDERCLAY	1.0	55.2

MAPID: 05784034000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118787

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686044

DATE COLLECTED: 7 / 17 / 1963

SURFACE ELEVATION (FT.): 684.2 LOGGED (FT.): 53.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8470

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.2	PLEISTOCENE		SOIL	1.0	0.0
683.2	PLEISTOCENE		SANDY CLAY	20.7	1.0
662.5	PLEISTOCENE		SAND & GRAVEL	1.9	21.7
660.6	PLEISTOCENE		CLAY & GRAVEL	10.9	23.6
649.7	CARBONDALE		GRAY SHALE	10.1	34.5
639.6	CARBONDALE	ST. DAVID	LIMESTONE	0.5	44.6
639.1	CARBONDALE	TURNER MINE	DARK SHALE	1.2	45.1
637.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	46.3
636.6	CARBONDALE	SPRINGFIELD	COAL	3.9	47.6
632.7	CARBONDALE		UNDERCLAY	1.5	51.5

MAPID: 05784035000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118528

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685836

DATE COLLECTED: 7 / 17 / 1963

SURFACE ELEVATION (FT.): 678.9 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8471A

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
678.9	PLEISTOCENE		SOIL	1.0	0.0
677.9	PLEISTOCENE		SANDY CLAY	20.5	1.0
657.4	PLEISTOCENE		CLAY, SAND & GRAVEL	23.5	21.5

MAPID: 05784036000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118494

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685761

DATE COLLECTED: 7 / 17 / 1963

SURFACE ELEVATION (FT.): 677.1 LOGGED (FT.): 59.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8471

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
677.1	PLEISTOCENE		SOIL	1.0	0.0
676.1	PLEISTOCENE		SANDY CLAY	26.2	1.0
649.9	PLEISTOCENE		SAND & GRAVEL	21.0	27.2
628.9	PLEISTOCENE		BOULDER	0.6	48.2
628.3	PLEISTOCENE		GRAVEL	1.4	48.8
626.9	CARBONDALE		GRAY SHALE	7.1	50.2
619.8	CARBONDALE		GRAY SHALE	2.5	57.3

MAPID: 05784037000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118432

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686038

DATE COLLECTED: 7 / 17 / 1963

SURFACE ELEVATION (FT.): 682.4 LOGGED (FT.): 53.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8472

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.4	PLEISTOCENE		SOIL	1.0	0.0	
681.4	PLEISTOCENE		SANDY CLAY	21.1	1.0	
660.3	PLEISTOCENE		SAND & GRAVEL	17.9	22.1	
642.4	PLEISTOCENE		GRAVEL	2.0	40.0	
640.4	CARBONDALE	TURNER MINE	DARK SHALE	5.9	42.0	
634.5	CARBONDALE	SPRINGFIELD	COAL	3.8	47.9	
630.7	CARBONDALE		UNDERCLAY	2.0	51.7	

MAPID: 05784038000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118158

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685821

DATE COLLECTED: 7 / 18 / 1963

SURFACE ELEVATION (FT.): 677.6 LOGGED (FT.): 47.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8473

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.6	PLEISTOCENE		SOIL	1.0	0.0	
676.6	PLEISTOCENE		CLAY & GRAVEL	23.1	1.0	
653.5	PLEISTOCENE		CLAY, SAND & GRAVEL	13.6	24.1	
639.9	CARBONDALE		CLAY & GRAVEL	3.0	37.7	
636.9	CARBONDALE		GRAY SHALE	0.4	40.7	
636.5	CARBONDALE	ST. DAVID	LIMESTONE	0.9	41.1	
635.6	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	42.0	
635.1	CARBONDALE	SPRINGFIELD	COAL	3.8	42.5	SOFT
631.3	CARBONDALE		UNDERCLAY	1.0	46.3	

MAPID: 05784039000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118203

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685562

DATE COLLECTED: 7 / 18 / 1963

SURFACE ELEVATION (FT.): 675.6 LOGGED (FT.): 47.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8474

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.6	PLEISTOCENE		SOIL	1.0	0.0	
674.6	PLEISTOCENE		SANDY CLAY	20.5	1.0	
654.1	PLEISTOCENE		SAND & GRAVEL	21.0	21.5	
633.1	CARBONDALE	SPRINGFIELD	COAL	3.0	42.5	SOFT BROKEN; TOP ERODED
630.1	CARBONDALE		UNDERCLAY	1.5	45.5	

MAPID: 05784040000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117849

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685715

DATE COLLECTED: 7 / 18 / 1963

SURFACE ELEVATION (FT.): 675.3 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8475

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.3	PLEISTOCENE		SOIL	1.0	0.0	
674.3	PLEISTOCENE		SANDY CLAY	20.2	1.0	
654.1	PLEISTOCENE		CLAY, SAND & GRAVEL	11.3	21.2	
642.8	PLEISTOCENE		CLAY & GRAVEL	11.0	32.5	
631.8	CARBONDALE		GRAY SHALE	6.5	43.5	

MAPID: 05784041000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117887

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685985

DATE COLLECTED: 7 / 18 / 1963

SURFACE ELEVATION (FT.): 679.2 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8476

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.2	PLEISTOCENE		SOIL	1.0	0.0	
678.2	PLEISTOCENE		CLAY & GRAVEL	22.8	1.0	
655.4	PLEISTOCENE		CLAY, SAND & GRAVEL	17.4	23.8	
638.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	41.2	SOFT BROKEN
636.4	CARBONDALE	SPRINGFIELD	COAL	2.6	42.8	SOFT BROKEN
633.8	CARBONDALE		UNDERCLAY	2.0	45.4	
631.8	CARBONDALE		GRAY SHALE	2.6	47.4	

MAPID: 05784042000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11816

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686091

DATE COLLECTED: 7 / 19 / 1963

SURFACE ELEVATION (FT.): 682.5 LOGGED (FT.): 51.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8477

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.5	PLEISTOCENE		SOIL	1.0	0.0	
681.5	PLEISTOCENE		SANDY CLAY	23.0	1.0	
658.5	PLEISTOCENE		SAND & GRAVEL	11.4	24.0	
647.1	PLEISTOCENE		CLAY & GRAVEL	6.8	35.4	
640.3	CARBONDALE		GRAY SHALE	2.4	42.2	
637.9	CARBONDALE	TURNER MINE	DARK SHALE	0.9	44.6	
637.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	45.5	
636.0	CARBONDALE	SPRINGFIELD	COAL	3.8	46.5	
632.2	CARBONDALE		UNDERCLAY	1.0	50.3	

MAPID: 05784043000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117872

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686242

DATE COLLECTED: 7 / 19 / 1963

SURFACE ELEVATION (FT.): 680.1 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8478

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.1	PLEISTOCENE		SOIL	1.0	0.0
679.1	PLEISTOCENE		SANDY CLAY	18.1	1.0
661.0	PLEISTOCENE		CLAY, SAND & GRAVEL	13.2	19.1
647.8	PLEISTOCENE		CLAY & GRAVEL	14.9	32.3
632.9	PLEISTOCENE		BOULDER	0.5	47.2
632.4	PLEISTOCENE		CLAY	0.9	47.7
631.5	CARBONDALE		GRAY SHALE	1.4	48.6

MAPID: 05784044000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118199

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686381

DATE COLLECTED: 7 / 19 / 1963

SURFACE ELEVATION (FT.): 687.5 LOGGED (FT.): 57.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8479

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
687.5	PLEISTOCENE		SOIL	1.0	0.0
686.5	PLEISTOCENE		CLAY	18.5	1.0
668.0	PLEISTOCENE		SAND	8.3	19.5
659.7	PLEISTOCENE		CLAY & GRAVEL	19.1	27.8
640.6	CARBONDALE		GRAY SHALE	1.4	46.9
639.2	CARBONDALE	ST. DAVID	LIMESTONE	0.2	48.3
639.0	CARBONDALE	TURNER MINE	DARK SHALE	1.6	48.5
637.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	50.1
636.1	CARBONDALE	SPRINGFIELD	COAL	3.9	51.4
632.2	CARBONDALE		UNDERCLAY	1.7	55.3

MAPID: 05784045000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117882

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.68654

DATE COLLECTED: 7 / 19 / 1963

SURFACE ELEVATION (FT.): 686.7 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8480

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
686.7	PLEISTOCENE		SOIL	1.0	0.0
685.7	PLEISTOCENE		SANDY CLAY	20.5	1.0
665.2	PLEISTOCENE		SAND & GRAVEL	4.4	21.5
660.8	PLEISTOCENE		BOULDER	1.0	25.9
659.8	PLEISTOCENE		CLAY & GRAVEL	3.8	26.9
656.0	PLEISTOCENE		BOULDER	0.8	30.7
655.2	PLEISTOCENE		CLAY & GRAVEL	14.0	31.5
641.2	PLEISTOCENE		SANDY CLAY	10.9	45.5
630.3	CARBONDALE		GRAY SHALE	3.6	56.4

MAPID: 05784046000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118216

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686646

DATE COLLECTED: 7 / 20 / 1963

SURFACE ELEVATION (FT.): 692.4 LOGGED (FT.): 61.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8481

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
692.4	PLEISTOCENE		SOIL	1.0	0.0
691.4	PLEISTOCENE		SANDY CLAY	25.1	1.0
666.3	PLEISTOCENE		CLAY & GRAVEL	15.5	26.1
650.8	PLEISTOCENE		SANDY CLAY	10.9	41.6
639.9	CARBONDALE		GRAY SHALE	2.1	52.5 SOFT
637.8	CARBONDALE	TURNER MINE	DARK SHALE	0.6	54.6
637.2	CARBONDALE	TURNER MINE	DARK SHALE	1.4	55.2
635.8	CARBONDALE	SPRINGFIELD	COAL	3.8	56.6
632.0	CARBONDALE		UNDERCLAY	1.0	60.4

MAPID: 05784047000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117873

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686747

DATE COLLECTED: 7 / 20 / 1963

SURFACE ELEVATION (FT.): 692.3 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8482

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
692.3	PLEISTOCENE		SOIL	1.0	0.0
691.3	PLEISTOCENE		SANDY CLAY	24.6	1.0
666.7	PLEISTOCENE		CLAY & GRAVEL	20.5	25.6
646.2	PLEISTOCENE		SANDY CLAY	19.4	46.1
626.8	CARBONDALE		LIMESTONE	1.2	65.5
625.6	CARBONDALE		GRAY SHALE	3.3	66.7

MAPID: 05784048000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11695

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686572

DATE COLLECTED: 7 / 20 / 1963

SURFACE ELEVATION (FT.): 686.9 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8483

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
686.9	PLEISTOCENE		SOIL	1.0	0.0
685.9	PLEISTOCENE		SANDY CLAY	21.2	1.0
664.7	PLEISTOCENE		CLAY & GRAVEL	2.6	22.2
662.1	CARBONDALE		GRAY SHALE	5.0	24.8
657.1	CARBONDALE		LIMESTONE	1.6	29.8
655.5	CARBONDALE		DARK SHALE	18.6	31.4
636.9	CARBONDALE	TURNER MINE	DARK SHALE	1.6	50.0
635.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	51.6
634.2	CARBONDALE	SPRINGFIELD	COAL	3.8	52.7
630.4	CARBONDALE		UNDERCLAY	1.5	56.5
628.9	CARBONDALE		GRAY SHALE	2.0	58.0

MAPID: 05784049000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117342 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686576 DATE COLLECTED: 7 / 20 / 1963

SURFACE ELEVATION (FT.): 685.4 LOGGED (FT.): 56.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8484 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.4	PLEISTOCENE		SOIL	1.0	0.0
684.4	PLEISTOCENE		SANDY CLAY	19.2	1.0
665.2	PLEISTOCENE		CLAY & GRAVEL	17.5	20.2
647.7	CARBONDALE		DARK SHALE	10.3	37.7
637.4	CARBONDALE	TURNER MINE	DARK SHALE	1.3	48.0
636.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	49.3
634.7	CARBONDALE	SPRINGFIELD	COAL	3.8	50.7
630.9	CARBONDALE		UNDERCLAY	1.5	54.5

MAPID: 05784050000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117571 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686646 DATE COLLECTED: 7 / 22 / 1963

SURFACE ELEVATION (FT.): 688.0 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8485 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.0	PLEISTOCENE		SOIL	1.0	0.0
687.0	PLEISTOCENE		CLAY	14.9	1.0
672.1	PLEISTOCENE		SANDY CLAY	10.8	15.9
661.3	PLEISTOCENE		CLAY & GRAVEL	23.2	26.7
638.1	PLEISTOCENE		SANDY CLAY	5.0	49.9
633.1	PLEISTOCENE		BOULDER	0.4	54.9
632.7	PLEISTOCENE		SANDY CLAY	4.7	55.3

MAPID: 05784051000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117358

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686774

DATE COLLECTED: 7 / 22 / 1963

SURFACE ELEVATION (FT.): 691.4 LOGGED (FT.): 61.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8486

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
691.4	PLEISTOCENE		SOIL	1.0	0.0	
690.4	PLEISTOCENE		SANDY CLAY	23.7	1.0	
666.7	PLEISTOCENE		CLAY & GRAVEL	5.2	24.7	
661.5	CARBONDALE		GRAY SHALE	3.0	29.9	SOFT
658.5	CARBONDALE		DARK SHALE	21.3	32.9	
637.2	CARBONDALE	ST. DAVID	LIMESTONE	0.3	54.2	
636.9	CARBONDALE	TURNER MINE	DARK SHALE	1.4	54.5	
635.5	CARBONDALE	TURNER MINE	DARK SHALE	1.1	55.9	
634.4	CARBONDALE	SPRINGFIELD	COAL	3.8	57.0	
630.6	CARBONDALE		UNDERCLAY	1.0	60.8	

MAPID: 05784052000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117579

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686395

DATE COLLECTED: 7 / 22 / 1963

SURFACE ELEVATION (FT.): 679.7 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8487

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.7	PLEISTOCENE		SOIL	1.0	0.0	
678.7	PLEISTOCENE		SANDY CLAY	17.3	1.0	YELLOW
661.4	PLEISTOCENE		CLAY & GRAVEL	4.5	18.3	GRAY
656.9	PLEISTOCENE		CLAY & GRAVEL	35.0	22.8	
621.9	CARBONDALE		GRAY SHALE	2.2	57.8	

MAPID: 05784053000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11722 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686303 DATE COLLECTED: 7 / 23 / 1963

SURFACE ELEVATION (FT.): 676.3 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8488 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.3	PLEISTOCENE		SOIL	1.0	0.0	
675.3	PLEISTOCENE		SANDY CLAY	17.0	1.0	
658.3	CARBONDALE		SAND	6.3	18.0	
652.0	PLEISTOCENE		SAND & GRAVEL	3.8	24.3	
648.2	PLEISTOCENE		CLAY & GRAVEL	20.9	28.1	
627.3	CARBONDALE		GRAY SHALE	1.0	49.0	

MAPID: 05784054000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116854 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686327 DATE COLLECTED: 7 / 23 / 1963

SURFACE ELEVATION (FT.): 680.5 LOGGED (FT.): 50.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8489 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.5	PLEISTOCENE		SOIL	1.0	0.0	
679.5	PLEISTOCENE		SANDY CLAY	18.8	1.0	
660.7	PLEISTOCENE		SAND & GRAVEL	6.0	19.8	
654.7	PLEISTOCENE		CLAY	1.8	25.8	& BOULDERS
652.9	PLEISTOCENE		SANDY CLAY	11.6	27.6	
641.3	CARBONDALE		SHALE	5.5	39.2	SOFT
635.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	44.7	
634.7	CARBONDALE	SPRINGFIELD	COAL	3.8	45.8	SOFT
630.9	CARBONDALE		UNDERCLAY	1.0	49.6	

MAPID: 05784055000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117033

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686072

DATE COLLECTED: 7 / 23 / 1963

SURFACE ELEVATION (FT.): 670.7 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8490

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
670.7	PLEISTOCENE		SOIL	1.0	0.0
669.7	PLEISTOCENE		SANDY CLAY	9.5	1.0
660.2	PLEISTOCENE		SAND & GRAVEL	29.0	10.5
631.2	PLEISTOCENE		CLAY & GRAVEL	5.5	39.5

MAPID: 05784056000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117194

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.68589

DATE COLLECTED: 7 / 23 / 1963

SURFACE ELEVATION (FT.): 668.5 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8493

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
668.5	PLEISTOCENE		SOIL	1.0	0.0
667.5	PLEISTOCENE		SANDY CLAY	13.6	1.0
653.9	PLEISTOCENE		SAND & GRAVEL	15.2	14.6
638.7	PLEISTOCENE		CLAY & GRAVEL	7.8	29.8
630.9	PLEISTOCENE		CLAY	2.4	37.6

MAPID: 05784057000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117457

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685626

DATE COLLECTED: 7 / 25 / 1963

SURFACE ELEVATION (FT.): 665.9 LOGGED (FT.): 36.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8499

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
665.9	PLEISTOCENE		SANDY CLAY	12.6	0.0
653.3	PLEISTOCENE		SAND & GRAVEL	13.0	12.6
640.3	PLEISTOCENE		BOULDER	0.3	25.6
640.0	PLEISTOCENE		SAND & GRAVEL	4.1	25.9
635.9	PLEISTOCENE		CLAY & GRAVEL	6.6	30.0

MAPID: 05784058000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117648

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685517

DATE COLLECTED: 7 / 25 / 1963

SURFACE ELEVATION (FT.): 668.4 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8500

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.4	PLEISTOCENE		SANDY CLAY	15.8	0.0	
652.6	PLEISTOCENE		SANDY CLAY	5.4	15.8	
647.2	PLEISTOCENE		BOULDER	1.2	21.2	
646.0	PLEISTOCENE		SAND & GRAVEL	7.2	22.4	
638.8	PLEISTOCENE		CLAY & GRAVEL	17.8	29.6	
621.0	CARBONDALE		GRAY SHALE	2.6	47.4	

MAPID: 05784059000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117569

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685231

DATE COLLECTED: 7 / 25 / 1963

SURFACE ELEVATION (FT.): 668.0 LOGGED (FT.): 40.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8501

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.0	PLEISTOCENE		CLAY & GRAVEL	17.2	0.0	YELLOW
650.8	PLEISTOCENE		CLAY & GRAVEL	7.5	17.2	GRAY
643.3	PLEISTOCENE		CLAY	10.6	24.7	
632.7	CARBONDALE	ST. DAVID	LIMESTONE	0.5	35.3	
632.2	CARBONDALE	SPRINGFIELD	COAL	3.7	35.8	SOFT BROKEN
628.5	CARBONDALE		UNDERCLAY	1.0	39.5	

MAPID: 0578406000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117686

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684988

DATE COLLECTED: 7 / 25 / 1963

SURFACE ELEVATION (FT.): 664.6 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8503

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.6	PLEISTOCENE		CLAY & GRAVEL	14.6	0.0	
650.0	PLEISTOCENE		SAND & GRAVEL	6.0	14.6	
644.0	PLEISTOCENE		CLAY	11.4	20.6	& BOULDERS
632.6	PLEISTOCENE		BOULDER	0.4	32.0	
632.2	PLEISTOCENE		CLAY & GRAVEL	7.6	32.4	

MAPID: 05784061000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117453

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684776

DATE COLLECTED: 7 / 26 / 1963

SURFACE ELEVATION (FT.): 647.8 LOGGED (FT.): 17.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8504

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
647.8	PLEISTOCENE		CLAY	4.4	0.0	
643.4	CARBONDALE		SHALE	6.8	4.4	VERY SOFT
636.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	11.2	VERY SOFT
635.6	CARBONDALE	SPRINGFIELD	COAL	3.8	12.2	SOFT BROKEN
631.8	CARBONDALE		UNDERCLAY	1.0	16.0	

MAPID: 05784062000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117077

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6849

DATE COLLECTED: 7 / 26 / 1963

SURFACE ELEVATION (FT.): 646.2 LOGGED (FT.): 14.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8505

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.2	PLEISTOCENE		SOIL	1.0	0.0	
645.2	PLEISTOCENE		SANDY CLAY	10.1	1.0	
635.1	CARBONDALE	SPRINGFIELD	COAL	2.0	11.1	VERY SOFT BROKEN; TOP ERODED
633.1	CARBONDALE		UNDERCLAY	1.0	13.1	

MAPID: 05784063000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684849

DATE COLLECTED: 7 / 26 / 1963

SURFACE ELEVATION (FT.): 646.1 LOGGED (FT.): 20.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8507

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.1	PLEISTOCENE		SOIL	1.0	0.0	
645.1	PLEISTOCENE		SANDY CLAY	16.2	1.0	
628.9	PLEISTOCENE		CLAY, SAND & GRAVEL	1.8	17.2	
627.1	CARBONDALE		GRAY SHALE	1.0	19.0	

MAPID: 05784064000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116337

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684804

DATE COLLECTED: 7 / 26 / 1963

SURFACE ELEVATION (FT.): 644.6 LOGGED (FT.): 19.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8509

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.6	PLEISTOCENE		SOIL	1.0	0.0	
643.6	PLEISTOCENE		SANDY CLAY	13.5	1.0	
630.1	CARBONDALE	SPRINGFIELD	CLAY & COAL	3.0	14.5	TOP ERODED
627.1	CARBONDALE		UNDERCLAY	1.0	17.5	
626.1	CARBONDALE		GRAY SHALE	1.0	18.5	

MAPID: 05784065000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.115941

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684754

DATE COLLECTED: 7 / 26 / 1963

SURFACE ELEVATION (FT.): 645.6 LOGGED (FT.): 20.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8511

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.6	PLEISTOCENE		SOIL	1.0	0.0	
644.6	PLEISTOCENE		SANDY CLAY	13.2	1.0	
631.4	CARBONDALE	SPRINGFIELD	CLAY & COAL	1.0	14.2	BROKEN; TOP ERODED
630.4	CARBONDALE		UNDERCLAY	1.0	15.2	
629.4	CARBONDALE		GRAY SHALE	3.8	16.2	

MAPID: 05784066000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.115546

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684745

DATE COLLECTED: 7 / 26 / 1963

SURFACE ELEVATION (FT.): 644.8 LOGGED (FT.): 10.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8513

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.8	PLEISTOCENE		SOIL	1.0	0.0	
643.8	PLEISTOCENE		CLAY	5.3	1.0	
638.5	CARBONDALE	SPRINGFIELD	COAL	3.4	6.3	VERY SOFT;TOP ERODED
635.1	CARBONDALE		UNDERCLAY	1.0	9.7	

MAPID: 05784067000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12002

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688954

DATE COLLECTED: 7 / 27 / 1963

SURFACE ELEVATION (FT.): 666.9 LOGGED (FT.): 43.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8515

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.9	PLEISTOCENE		CLAY & GRAVEL	11.6	0.0	YELLOW
655.3	PLEISTOCENE		CLAY & GRAVEL	5.0	11.6	GRAY
650.3	CARBONDALE		GRAY SHALE	17.8	16.6	
632.5	CARBONDALE	ST. DAVID	LIMESTONE	0.6	34.4	
631.9	CARBONDALE	TURNER MINE	DARK SHALE	1.4	35.0	
630.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	36.4	
629.5	CARBONDALE	SPRINGFIELD	COAL	3.9	37.4	
625.6	CARBONDALE		UNDERCLAY	1.7	41.3	

MAPID: 05784068000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120001

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.690471

DATE COLLECTED: 7 / 27 / 1963

SURFACE ELEVATION (FT.): 692.6 LOGGED (FT.): 70.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8516

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
692.6	PLEISTOCENE		CLAY	19.0	0.0	
673.6	PLEISTOCENE		CLAY & GRAVEL	28.4	19.0	
645.2	CARBONDALE		GRAY SHALE	15.6	47.4	
629.6	CARBONDALE	ST. DAVID	LIMESTONE	0.6	63.0	
629.0	CARBONDALE	TURNER MINE	DARK SHALE	1.0	63.6	
628.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	64.6	
626.9	CARBONDALE	SPRINGFIELD	COAL	3.9	65.7	
623.0	CARBONDALE		UNDERCLAY	1.0	69.6	

MAPID: 05784069000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118875

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691426

DATE COLLECTED: 7 / 27 / 1963

SURFACE ELEVATION (FT.): 707.8 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8517

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
707.8	PLEISTOCENE		SOIL	1.0	0.0	
706.8	PLEISTOCENE		SANDY CLAY	16.5	1.0	
690.3	CARBONDALE	HERRIN	COAL	2.8	17.5	SOFT BROKEN; TOP ERODED
687.5	CARBONDALE		UNDERCLAY	1.7	20.3	
685.8	CARBONDALE		CALCAREOUS SHALE	31.2	22.0	
654.6	CARBONDALE		LIMESTONE	0.9	53.2	
653.7	CARBONDALE		GRAY SHALE	8.0	54.1	
645.7	CARBONDALE		DARK SHALE	14.4	62.1	
631.3	CARBONDALE	ST. DAVID	LIMESTONE	0.8	76.5	
630.5	CARBONDALE	TURNER MINE	DARK SHALE	1.1	77.3	
629.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	78.4	
628.3	CARBONDALE	SPRINGFIELD	COAL	3.9	79.5	
624.4	CARBONDALE		UNDERCLAY	1.6	83.4	

MAPID: 05784070000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117758

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691418

DATE COLLECTED: 7 / 29 / 1963

SURFACE ELEVATION (FT.): 706.9 LOGGED (FT.): 83.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8518

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.9	PLEISTOCENE		SOIL	1.0	0.0	
705.9	PLEISTOCENE		SANDY CLAY	13.6	1.0	
692.3	CARBONDALE	HERRIN	COAL	3.5	14.6	VERY SOFT BROKEN; TOP ERODED
688.8	CARBONDALE		UNDERCLAY	1.9	18.1	
686.9	CARBONDALE		GRAY SHALE	1.5	20.0	
685.4	CARBONDALE		LIMESTONE	2.0	21.5	
683.4	CARBONDALE		GRAY SHALE	27.8	23.5	
655.6	CARBONDALE		LIMESTONE	0.6	51.3	
655.0	CARBONDALE		GRAY SHALE	1.8	51.9	
653.2	CARBONDALE		LIMESTONE	0.4	53.7	
652.8	CARBONDALE		DARK SHALE	20.6	54.1	
632.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	74.7	
631.8	CARBONDALE	TURNER MINE	DARK SHALE	1.2	75.1	
630.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	76.3	
629.2	CARBONDALE	SPRINGFIELD	COAL	3.8	77.7	
625.4	CARBONDALE		UNDERCLAY	1.5	81.5	

MAPID: 05784071000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11658 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.691402 DATE COLLECTED: 7 / 29 / 1963
 SURFACE ELEVATION (FT.): 707.1 LOGGED (FT.): 83.0 LOG TYPE: Drillers Log
 SOURCE: MIDLAND COAL CO. FARMWEST 8519 WELL TYPE: Coal Test
 COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
707.1	PLEISTOCENE		SOIL	1.0	0.0	
706.1	PLEISTOCENE		SANDY CLAY	15.8	1.0	
690.3	CARBONDALE	HERRIN	COAL	1.6	16.8	SOFT BROKEN; TOP ERODED
688.7	CARBONDALE		UNDERCLAY	1.6	18.4	
687.1	CARBONDALE		GRAY SHALE	31.2	20.0	
655.9	CARBONDALE		LIMESTONE	1.1	51.2	
654.8	CARBONDALE		GRAY SHALE	4.6	52.3	
650.2	CARBONDALE		DARK SHALE	17.7	56.9	
632.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	74.6	
632.1	CARBONDALE	TURNER MINE	DARK SHALE	1.1	75.0	
631.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	76.1	
629.6	CARBONDALE	SPRINGFIELD	COAL	3.8	77.5	
625.8	CARBONDALE		UNDERCLAY	1.7	81.3	

MAPID: 05784072000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116627 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.690569 DATE COLLECTED: 7 / 30 / 1963
 SURFACE ELEVATION (FT.): 698.5 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: MIDLAND COAL CO. FARMWEST 8520 WELL TYPE: Coal Test
 COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.5	PLEISTOCENE		SOIL	1.0	0.0	
697.5	PLEISTOCENE		SANDY CLAY	9.8	1.0	YELLOW
687.7	PLEISTOCENE		SANDY CLAY	25.2	10.8	GRAY
662.5	CARBONDALE		LIMESTONE	1.0	36.0	
661.5	CARBONDALE		GRAY SHALE	2.3	37.0	
659.2	CARBONDALE		DARK SHALE	30.1	39.3	
629.1	CARBONDALE	ST. DAVID	LIMESTONE	0.3	69.4	
628.8	CARBONDALE	TURNER MINE	DARK SHALE	1.0	69.7	
627.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	70.7	
626.4	CARBONDALE	SPRINGFIELD	COAL	3.9	72.1	
622.5	CARBONDALE		UNDERCLAY	2.0	76.0	

MAPID: 05784073000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117805 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.690546 DATE COLLECTED: 7 / 30 / 1963

SURFACE ELEVATION (FT.): 705.6 LOGGED (FT.): 84.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8521 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
705.6	PLEISTOCENE		SOIL	1.0	0.0
704.6	PLEISTOCENE		SANDY CLAY	13.8	1.0
690.8	CARBONDALE		CALCAREOUS SHALE	37.4	14.8
653.4	CARBONDALE		LIMESTONE	1.5	52.2
651.9	CARBONDALE		DARK SHALE	22.2	53.7
629.7	CARBONDALE	ST. DAVID	LIMESTONE	0.6	75.9
629.1	CARBONDALE	TURNER MINE	DARK SHALE	1.1	76.5
628.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	77.6
626.8	CARBONDALE	SPRINGFIELD	COAL	3.8	78.8
623.0	CARBONDALE		UNDERCLAY	1.4	82.6

MAPID: 05784074000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11903 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.690589 DATE COLLECTED: 7 / 30 / 1963

SURFACE ELEVATION (FT.): 704.4 LOGGED (FT.): 82.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8522 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
704.4	PLEISTOCENE		SOIL	1.0	0.0
703.4	PLEISTOCENE		SANDY CLAY	14.8	1.0
688.6	CARBONDALE	HERRIN	COAL	0.4	15.8
688.2	CARBONDALE		CLAYSTONE	5.8	16.2
682.4	CARBONDALE		LIMESTONE	1.6	22.0
680.8	CARBONDALE		CALCAREOUS SHALE	33.8	23.6
647.0	CARBONDALE		DARK SHALE	17.2	57.4
629.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	74.6
629.4	CARBONDALE	TURNER MINE	DARK SHALE	1.0	75.0
628.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	76.0
626.9	CARBONDALE	SPRINGFIELD	COAL	3.8	77.5
623.1	CARBONDALE		UNDERCLAY	1.0	81.3

SOFT BROKEN; TOP
ERODED
YELLOW

MAPID: 05784075000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116547

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689722

DATE COLLECTED: 7 / 31 / 1963

SURFACE ELEVATION (FT.): 675.8 LOGGED (FT.): 53.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8523

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
675.8	PLEISTOCENE		SOIL	1.0	0.0
674.8	PLEISTOCENE		CLAY	2.9	1.0
671.9	CARBONDALE		SANDY SHALE	5.6	3.9
666.3	CARBONDALE		GRAY SHALE	14.0	9.5
652.3	CARBONDALE		DARK SHALE	8.4	23.5
643.9	CARBONDALE		LIMESTONE	0.4	31.9
643.5	CARBONDALE		DARK SHALE	12.4	32.3
631.1	CARBONDALE	ST. DAVID	LIMESTONE	0.7	44.7
630.4	CARBONDALE	TURNER MINE	DARK SHALE	1.0	45.4
629.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	46.4
628.1	CARBONDALE	SPRINGFIELD	COAL	3.9	47.7
624.2	CARBONDALE		UNDERCLAY	1.4	51.6

MAPID: 05784076000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119061

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688774

DATE COLLECTED: 7 / 31 / 1963

SURFACE ELEVATION (FT.): 657.7 LOGGED (FT.): 35.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8524

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
657.7	PLEISTOCENE		SANDY CLAY	10.2	0.0
647.5	PLEISTOCENE		CLAY & GRAVEL	15.2	10.2
632.3	CARBONDALE		GRAY SHALE	1.4	25.4
630.9	CARBONDALE	ST. DAVID	LIMESTONE	0.6	26.8
630.3	CARBONDALE	TURNER MINE	DARK SHALE	1.2	27.4
629.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	28.6
627.7	CARBONDALE	SPRINGFIELD	COAL	3.9	30.0
623.8	CARBONDALE		UNDERCLAY	1.1	33.9

MAPID: 05784077000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119051

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689668

DATE COLLECTED: 7 / 31 / 1963

SURFACE ELEVATION (FT.): 689.8 LOGGED (FT.): 67.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8525

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.8	PLEISTOCENE		SANDY CLAY	12.4	0.0	
677.4	PLEISTOCENE		CLAY & GRAVEL	2.7	12.4	
674.7	PLEISTOCENE		CLAY	3.5	15.1	& BOULDERS
671.2	CARBONDALE		GRAY SHALE	23.0	18.6	
648.2	CARBONDALE		LIMESTONE	0.3	41.6	
647.9	CARBONDALE		DARK SHALE	4.4	41.9	
643.5	CARBONDALE		LIMESTONE	0.3	46.3	
643.2	CARBONDALE		DARK SHALE	12.5	46.6	
630.7	CARBONDALE	ST. DAVID	LIMESTONE	0.6	59.1	
630.1	CARBONDALE	TURNER MINE	DARK SHALE	1.1	59.7	
629.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	60.8	
627.6	CARBONDALE	SPRINGFIELD	COAL	3.8	62.2	
623.8	CARBONDALE		UNDERCLAY	1.5	66.0	

MAPID: 05784078000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118855

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688011

DATE COLLECTED: 11 / 9 / 1963

SURFACE ELEVATION (FT.): 687.4 LOGGED (FT.): 64.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8550

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.4	PLEISTOCENE		SOIL	1.0	0.0	
686.4	PLEISTOCENE		SANDY CLAY	8.4	1.0	
678.0	PLEISTOCENE		SAND & GRAVEL	16.0	9.4	
662.0	PLEISTOCENE		CLAY & GRAVEL	19.9	25.4	
642.1	CARBONDALE		GRAY SHALE	4.5	45.3	SOFT
637.6	CARBONDALE		LIMESTONE	1.0	49.8	
636.6	CARBONDALE		GRAY SHALE	4.4	50.8	
632.2	CARBONDALE	ST. DAVID	LIMESTONE	0.2	55.2	
632.0	CARBONDALE	TURNER MINE	DARK SHALE	1.3	55.4	
630.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	56.7	
629.5	CARBONDALE	SPRINGFIELD	COAL	3.9	57.9	
625.6	CARBONDALE		UNDERCLAY	2.2	61.8	

MAPID: 05784079000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117852 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688457 DATE COLLECTED: 11 / 12 / 1963

SURFACE ELEVATION (FT.): 695.4 LOGGED (FT.): 70.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8551 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
695.4	PLEISTOCENE		SOIL	1.0	0.0
694.4	PLEISTOCENE		SANDY CLAY	17.5	1.0
676.9	PLEISTOCENE		SAND & GRAVEL	6.0	18.5
670.9	CARBONDALE		GRAY SHALE	16.8	24.5
654.1	CARBONDALE		LIMESTONE	0.8	41.3
653.3	CARBONDALE		GRAY SHALE	20.2	42.1
633.1	CARBONDALE	ST. DAVID	LIMESTONE	0.5	62.3
632.6	CARBONDALE	TURNER MINE	DARK SHALE	1.3	62.8
631.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	64.1
630.0	CARBONDALE	SPRINGFIELD	COAL	3.9	65.4
626.1	CARBONDALE		UNDERCLAY	1.0	69.3

MAPID: 05784080000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116557 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688754 DATE COLLECTED: 11 / 12 / 1963

SURFACE ELEVATION (FT.): 695.0 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8552 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
695.0	PLEISTOCENE		SOIL	1.0	0.0
694.0	PLEISTOCENE		SANDY CLAY	16.2	1.0
677.8	CARBONDALE		SANDY SHALE	12.0	17.2 SOFT
665.8	CARBONDALE		GRAY SHALE	30.8	29.2
635.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	60.0
634.5	CARBONDALE	TURNER MINE	DARK SHALE	1.2	60.5
633.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	61.7
632.0	CARBONDALE	SPRINGFIELD	COAL	3.8	63.0
628.2	CARBONDALE		UNDERCLAY	1.2	66.8

MAPID: 05784081000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116433

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687844

DATE COLLECTED: 11 / 12 / 1963

SURFACE ELEVATION (FT.): 706.4 LOGGED (FT.): 79.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8553

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.4	PLEISTOCENE		SOIL	1.0	0.0	
705.4	PLEISTOCENE		CLAY & GRAVEL	25.7	1.0	
679.7	PLEISTOCENE		CLAY & SHALE	1.0	26.7	
678.7	PLEISTOCENE		BOULDER	0.5	27.7	
678.2	PLEISTOCENE		CLAY, SAND & GRAVEL	5.8	28.2	
672.4	PLEISTOCENE		BOULDER	0.8	34.0	
671.6	PLEISTOCENE		CLAY	3.9	34.8	
667.7	PLEISTOCENE		CLAY	1.5	38.7	& BOULDER
666.2	PLEISTOCENE		CLAY & GRAVEL	21.1	40.2	
645.1	CARBONDALE		GRAY SHALE	3.7	61.3	SOFT
641.4	CARBONDALE		GRAY SHALE	6.1	65.0	
635.3	CARBONDALE	ST. DAVID	LIMESTONE	0.3	71.1	
635.0	CARBONDALE	TURNER MINE	DARK SHALE	1.3	71.4	
633.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	72.7	
632.4	CARBONDALE	SPRINGFIELD	COAL	3.8	74.0	
628.6	CARBONDALE		UNDERCLAY	1.9	77.8	

MAPID: 05784082000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117708

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686952

DATE COLLECTED: 12 / 12 / 1963

SURFACE ELEVATION (FT.): 694.2 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8554

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.2	PLEISTOCENE		SOIL	1.0	0.0	
693.2	PLEISTOCENE		SANDY CLAY	21.4	1.0	
671.8	PLEISTOCENE		CLAY & GRAVEL	27.0	22.4	
644.8	PLEISTOCENE		SANDY CLAY	17.8	49.4	
627.0	CARBONDALE		GRAY SHALE	3.1	67.2	
623.9	CARBONDALE		LIMESTONE	0.3	70.3	
623.6	CARBONDALE		GRAY SHALE	9.4	70.6	

MAPID: 05784083000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118212 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686991 DATE COLLECTED: 11 / 13 / 1963

SURFACE ELEVATION (FT.): 697.0 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8555 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.0	PLEISTOCENE		SOIL	1.0	0.0	
696.0	PLEISTOCENE		SANDY CLAY	20.1	1.0	
675.9	PLEISTOCENE		BOULDER	0.5	21.1	
675.4	PLEISTOCENE		CLAY & GRAVEL	24.2	21.6	
651.2	PLEISTOCENE		BOULDER	0.4	45.8	
650.8	PLEISTOCENE		SANDY CLAY	23.8	46.2	
627.0	CARBONDALE		GRAY SHALE	3.6	70.0	
623.4	CARBONDALE		LIMESTONE	0.4	73.6	
623.0	CARBONDALE		GRAY SHALE	1.0	74.0	

MAPID: 05784084000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118391 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686796 DATE COLLECTED: 11 / 13 / 1963

SURFACE ELEVATION (FT.): 696.1 LOGGED (FT.): 69.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8556 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.1	PLEISTOCENE		SOIL	1.0	0.0	
695.1	PLEISTOCENE		SANDY CLAY	20.8	1.0	
674.3	PLEISTOCENE		CLAY & GRAVEL	34.3	21.8	
640.0	CARBONDALE		SHALE	3.9	56.1	SOFT
636.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	60.0	
634.6	CARBONDALE	SPRINGFIELD	COAL	3.6	61.5	
631.0	CARBONDALE		UNDERCLAY	1.9	65.1	
629.1	CARBONDALE		GRAY SHALE	2.6	67.0	

MAPID: 05784085000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118499 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687077 DATE COLLECTED: 11 / 13 / 1963

SURFACE ELEVATION (FT.): 700.7 LOGGED (FT.): 71.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8557 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.7	PLEISTOCENE		SOIL	1.0	0.0	
699.7	PLEISTOCENE		SANDY CLAY	18.5	1.0	
681.2	PLEISTOCENE		SAND & GRAVEL	3.6	19.5	
677.6	PLEISTOCENE		CLAY & GRAVEL	12.5	23.1	
665.1	PLEISTOCENE		BOULDER	1.1	35.6	
664.0	PLEISTOCENE		CLAY & GRAVEL	11.8	36.7	
652.2	PLEISTOCENE		CLAY	4.0	48.5	
648.2	PLEISTOCENE		CLAY	2.8	52.5	AND BOULDERS
645.4	CARBONDALE		GRAY SHALE	4.4	55.3	
641.0	CARBONDALE		LIMESTONE	0.3	59.7	
640.7	CARBONDALE		GRAY SHALE	3.0	60.0	
637.7	CARBONDALE	ST. DAVID	LIMESTONE	0.7	63.0	
637.0	CARBONDALE	TURNER MINE	DARK SHALE	1.0	63.7	
636.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	64.7	
634.4	CARBONDALE	SPRINGFIELD	COAL	3.8	66.3	
630.6	CARBONDALE		UNDERCLAY	1.0	70.1	

MAPID: 05784086000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118174 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.68728 DATE COLLECTED: 11 / 14 / 1963

SURFACE ELEVATION (FT.): 700.4 LOGGED (FT.): 77.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8558 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.4	PLEISTOCENE		SOIL	1.0	0.0	
699.4	PLEISTOCENE		SANDY CLAY	17.5	1.0	
681.9	PLEISTOCENE		BOULDER	0.8	18.5	
681.1	PLEISTOCENE		CLAY & GRAVEL	4.0	19.3	YELLOW
677.1	PLEISTOCENE		CLAY & GRAVEL	16.6	23.3	GRAY
660.5	PLEISTOCENE		SANDY CLAY	32.8	39.9	
627.7	CARBONDALE		LIMESTONE	0.8	72.7	
626.9	CARBONDALE		GRAY SHALE	3.3	73.5	
623.6	CARBONDALE		LIMESTONE	0.4	76.8	

MAPID: 05784087000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118541 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687378 DATE COLLECTED: 11 / 14 / 1963

SURFACE ELEVATION (FT.): 699.6 LOGGED (FT.): 71.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8559 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
699.6	PLEISTOCENE		SOIL	1.0	0.0	
698.6	PLEISTOCENE		SANDY CLAY	18.9	1.0	
679.7	PLEISTOCENE		CLAY, SAND & GRAVEL	11.5	19.9	
668.2	PLEISTOCENE		CLAY & GRAVEL	22.7	31.4	
645.5	CARBONDALE		GRAY SHALE	7.4	54.1	
638.1	CARBONDALE		LIMESTONE	0.2	61.5	
637.9	CARBONDALE		GRAY SHALE	2.0	61.7	
635.9	CARBONDALE	ST. DAVID	LIMESTONE	0.8	63.7	
635.1	CARBONDALE	TURNER MINE	DARK SHALE	1.3	64.5	
633.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	65.8	
632.5	CARBONDALE	SPRINGFIELD	COAL	3.8	67.1	& HORSE BACK TRACE
628.7	CARBONDALE		UNDERCLAY	1.0	70.9	

MAPID: 05784088000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118275 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687583 DATE COLLECTED: 11 / 14 / 1963

SURFACE ELEVATION (FT.): 698.3 LOGGED (FT.): 71.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8560 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.3	PLEISTOCENE		SOIL	1.0	0.0	
697.3	PLEISTOCENE		SANDY CLAY	17.4	1.0	
679.9	PLEISTOCENE		SAND & GRAVEL	1.6	18.4	
678.3	PLEISTOCENE		BOULDER	1.2	20.0	
677.1	PLEISTOCENE		CLAY, SAND & GRAVEL	5.2	21.2	
671.9	PLEISTOCENE		CLAY & GRAVEL	27.9	26.4	
644.0	PLEISTOCENE		SANDY CLAY	9.9	54.3	
634.1	CARBONDALE	TURNER MINE	DARK SHALE	0.7	64.2	
633.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	64.9	
632.1	CARBONDALE	SPRINGFIELD	COAL	3.8	66.2	
628.3	CARBONDALE		UNDERCLAY	1.0	70.0	

MAPID: 05784089000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117912 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687519 DATE COLLECTED: 11 / 15 / 1963

SURFACE ELEVATION (FT.): 699.9 LOGGED (FT.): 75.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8561 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
699.9	PLEISTOCENE		SOIL	1.0	0.0	
698.9	PLEISTOCENE		SANDY CLAY	23.1	1.0	
675.8	PLEISTOCENE		BOULDER	0.5	24.1	
675.3	PLEISTOCENE		CLAY & GRAVEL	19.5	24.6	
655.8	PLEISTOCENE		BOULDER	2.8	44.1	
653.0	PLEISTOCENE		CLAY & GRAVEL	24.9	46.9	
628.1	CARBONDALE		LIMESTONE	0.8	71.8	
627.3	CARBONDALE		GRAY SHALE	3.2	72.6	

MAPID: 05784090000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118056 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687797 DATE COLLECTED: 11 / 15 / 1963

SURFACE ELEVATION (FT.): 693.9 LOGGED (FT.): 68.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8562 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.9	PLEISTOCENE		SOIL	1.0	0.0	
692.9	PLEISTOCENE		SANDY CLAY	18.8	1.0	
674.1	PLEISTOCENE		SAND & GRAVEL	8.0	19.8	
666.1	PLEISTOCENE		BOULDER	0.9	27.8	
665.2	PLEISTOCENE		CLAY	3.3	28.7	& BOULDERS
661.9	PLEISTOCENE		CLAY & GRAVEL	25.1	32.0	
636.8	PLEISTOCENE		BOULDER	0.3	57.1	
636.5	PLEISTOCENE		SANDY CLAY	8.0	57.4	
628.5	CARBONDALE		GRAY SHALE	0.6	65.4	
627.9	CARBONDALE		LIMESTONE	0.5	66.0	
627.4	CARBONDALE		GRAY SHALE	2.3	66.5	

MAPID: 05784091000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118419 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687861 DATE COLLECTED: 11 / 15 / 1963

SURFACE ELEVATION (FT.): 694.8 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8563 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
694.8	PLEISTOCENE		SOIL	1.0	0.0
693.8	PLEISTOCENE		SANDY CLAY	15.5	1.0
678.3	PLEISTOCENE		CLAY, SAND & GRAVEL	16.1	16.5
662.2	PLEISTOCENE		CLAY & GRAVEL	6.8	32.6
655.4	PLEISTOCENE		BOULDER	0.6	39.4
654.8	PLEISTOCENE		SANDY CLAY	20.6	40.0
634.2	CARBONDALE	ST. DAVID	LIMESTONE	0.6	60.6
633.6	CARBONDALE	TURNER MINE	DARK SHALE	1.5	61.2
632.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	62.7
630.8	CARBONDALE	SPRINGFIELD	COAL	3.8	64.0
627.0	CARBONDALE		UNDERCLAY	2.2	67.8

MAPID: 05784092000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118188 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687998 DATE COLLECTED: 11 / 16 / 1963

SURFACE ELEVATION (FT.): 688.9 LOGGED (FT.): 63.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8564 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.9	PLEISTOCENE		SOIL	1.0	0.0
687.9	PLEISTOCENE		CLAY & GRAVEL	21.8	1.0
666.1	PLEISTOCENE		CLAY & GRAVEL	33.6	22.8
632.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	56.4
631.7	CARBONDALE	SPRINGFIELD	COAL	3.9	57.2
627.8	CARBONDALE		UNDERCLAY	2.0	61.1

MAPID: 05784093000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11853 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688126 DATE COLLECTED: 11 / 16 / 1963

SURFACE ELEVATION (FT.): 688.7 LOGGED (FT.): 64.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8565 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.7	PLEISTOCENE		SOIL	1.0	0.0
687.7	PLEISTOCENE		SANDY CLAY	17.9	1.0
669.8	PLEISTOCENE		SANDY CLAY	2.8	18.9
667.0	CARBONDALE		CLAY & GRAVEL	30.2	21.7
636.8	CARBONDALE		GRAY SHALE	3.4	51.9
633.4	CARBONDALE	ST. DAVID	LIMESTONE	0.5	55.3
632.9	CARBONDALE	TURNER MINE	DARK SHALE	1.5	55.8
631.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	57.3
630.2	CARBONDALE	SPRINGFIELD	COAL	3.7	58.5
626.5	CARBONDALE		UNDERCLAY	1.8	62.2

MAPID: 05784094000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.1178 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687989 DATE COLLECTED: 11 / 16 / 1963

SURFACE ELEVATION (FT.): 696.1 LOGGED (FT.): 67.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8566 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
696.1	PLEISTOCENE		SOIL	1.0	0.0
695.1	PLEISTOCENE		CLAY	19.1	1.0
676.0	PLEISTOCENE		SAND & GRAVEL	9.9	20.1
666.1	PLEISTOCENE		CLAY & GRAVEL	14.2	30.0
651.9	PLEISTOCENE		SANDY CLAY	3.0	44.2
648.9	CARBONDALE		GRAY SHALE	11.8	47.2
637.1	CARBONDALE	ST. DAVID	LIMESTONE	0.9	59.0
636.2	CARBONDALE	TURNER MINE	DARK SHALE	1.3	59.9
634.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	61.2
633.7	CARBONDALE	SPRINGFIELD	COAL	3.6	62.4
630.1	CARBONDALE		UNDERCLAY	1.6	66.0

MAPID: 05784095000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118038 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688236 DATE COLLECTED: 11 / 16 / 1963

SURFACE ELEVATION (FT.): 687.2 LOGGED (FT.): 62.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8567 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
687.2	PLEISTOCENE		SOIL	1.0	0.0
686.2	PLEISTOCENE		SANDY CLAY	18.3	1.0
667.9	PLEISTOCENE		CLAY & GRAVEL	16.6	19.3
651.3	PLEISTOCENE		SANDY CLAY	7.9	35.9
643.4	CARBONDALE		GRAY SHALE	9.4	43.8
634.0	CARBONDALE	ST. DAVID	LIMESTONE	0.8	53.2
633.2	CARBONDALE	TURNER MINE	DARK SHALE	1.4	54.0
631.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	55.4
630.6	CARBONDALE	SPRINGFIELD	COAL	3.9	56.6
626.7	CARBONDALE		UNDERCLAY	1.5	60.5

MAPID: 05784096000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117549 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687457 DATE COLLECTED: 11 / 18 / 1963

SURFACE ELEVATION (FT.): 701.8 LOGGED (FT.): 73.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8568 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
701.8	PLEISTOCENE		SOIL	1.0	0.0
700.8	PLEISTOCENE		SANDY CLAY	20.8	1.0
680.0	PLEISTOCENE		BOULDER	0.8	21.8
679.2	PLEISTOCENE		SANDY CLAY	40.0	22.6
639.2	CARBONDALE		GRAY SHALE	2.3	62.6
636.9	CARBONDALE	ST. DAVID	LIMESTONE	0.4	64.9
636.5	CARBONDALE	TURNER MINE	DARK SHALE	1.3	65.3
635.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	66.6
633.9	CARBONDALE	SPRINGFIELD	COAL	3.8	67.9
630.1	CARBONDALE		UNDERCLAY	1.3	71.7

MAPID: 05784097000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117394

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687171

DATE COLLECTED: 11 / 18 / 1963

SURFACE ELEVATION (FT.): 699.3 LOGGED (FT.): 71.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8570

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
699.3	PLEISTOCENE		SOIL	1.0	0.0
698.3	PLEISTOCENE		SANDY CLAY	19.2	1.0
679.1	PLEISTOCENE		BOULDER	0.4	20.2
678.7	PLEISTOCENE		CLAY & GRAVEL	0.6	20.6
678.1	PLEISTOCENE		BOULDER	2.1	21.2
676.0	PLEISTOCENE		CLAY & GRAVEL	18.9	23.3
657.1	CARBONDALE		GRAY SHALE	21.1	42.2
636.0	CARBONDALE	ST. DAVID	LIMESTONE	0.6	63.3
635.4	CARBONDALE	TURNER MINE	DARK SHALE	1.3	63.9
634.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	65.2
632.9	CARBONDALE	SPRINGFIELD	COAL	3.8	66.4
629.1	CARBONDALE		UNDERCLAY	1.0	70.2

MAPID: 05784098000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117411

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686959

DATE COLLECTED: 11 / 18 / 1963

SURFACE ELEVATION (FT.): 694.6 LOGGED (FT.): 66.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8571

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
694.6	PLEISTOCENE		SOIL	1.0	0.0
693.6	PLEISTOCENE		SANDY CLAY	19.2	1.0
674.4	PLEISTOCENE		SANDY CLAY	16.4	20.2 GRAY
658.0	CARBONDALE		GRAY SHALE	21.2	36.6
636.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	57.8
636.3	CARBONDALE	TURNER MINE	DARK SHALE	1.5	58.3
634.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	59.8
633.5	CARBONDALE	SPRINGFIELD	COAL	3.7	61.1
629.8	CARBONDALE		UNDERCLAY	1.4	64.8

MAPID: 05784135000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10098 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.69717 DATE COLLECTED: 6 / 5 / 1975

SURFACE ELEVATION (FT.): 724.9 LOGGED (FT.): 114.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22883 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
724.9	PLEISTOCENE		UNKNOWN	52.3	0.0
672.6	CARBONDALE		SANDSTONE/SHALE	46.7	52.3
625.9	CARBONDALE		DARK SHALE	8.8	99.0
617.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	107.8
616.3	CARBONDALE	SPRINGFIELD	COAL	3.7	108.6
612.6	CARBONDALE		UNDERCLAY	1.7	112.3

MAPID: 05784136000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101118 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.693051 DATE COLLECTED: 6 / 5 / 1975

SURFACE ELEVATION (FT.): 665.3 LOGGED (FT.): 45.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22884 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
665.3	PLEISTOCENE		CLAY	17.0	0.0
648.3	CARBONDALE		DARK SHALE	18.2	17.0
630.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	35.2
629.2	CARBONDALE	SPRINGFIELD	COAL	3.6	36.1 BROKEN
625.6	CARBONDALE		SHALE/UNDERCLAY	5.3	39.7

MAPID: 05784141000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101151

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689734

DATE COLLECTED: 6 / 9 / 1975

SURFACE ELEVATION (FT.): 657.2 LOGGED (FT.): 26.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22889

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
657.2	PLEISTOCENE		CLAY	16.2	0.0
641.0	CARBONDALE		GRAY SHALE	2.6	16.2
638.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	18.8
636.6	CARBONDALE	SPRINGFIELD	COAL	3.4	20.6
633.2	CARBONDALE		UNDERCLAY	2.0	24.0

MAPID: 05784142000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101175

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689124

DATE COLLECTED: 6 / 9 / 1975

SURFACE ELEVATION (FT.): 653.9 LOGGED (FT.): 25.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22890

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
653.9	PLEISTOCENE		CLAY & GRAVEL	13.2	0.0
640.7	CARBONDALE		GRAY SHALE	2.7	13.2
638.0	CARBONDALE	TURNER MINE	DARK SHALE	2.0	15.9
636.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	17.9
635.4	CARBONDALE	SPRINGFIELD	COAL	3.5	18.5
631.9	CARBONDALE		UNDERCLAY	3.0	22.0

MAPID: 05784143000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101204

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687949

DATE COLLECTED: 6 / 10 / 1975

SURFACE ELEVATION (FT.): 674.1 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22891

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
674.1	PLEISTOCENE		CLAY	18.1	0.0
656.0	CARBONDALE		DARK SHALE	16.9	18.1
639.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	35.0
638.7	CARBONDALE	TURNER MINE	DARK SHALE	1.4	35.4
637.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	36.8
635.8	CARBONDALE	SPRINGFIELD	COAL	3.7	38.3
632.1	CARBONDALE		UNDERCLAY	3.0	42.0

MAPID: 05784144000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101256

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684285

DATE COLLECTED: 6 / 10 / 1975

SURFACE ELEVATION (FT.): 728.9 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22892

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
728.9	PLEISTOCENE		UNCONSOLIDATED	45.0	0.0
683.9	CARBONDALE		GRAY SHALE	2.8	45.0
681.1	CARBONDALE		LIMESTONE	5.4	47.8
675.7	CARBONDALE		SANDSTONE/SHALE	23.3	53.2
652.4	CARBONDALE		LIMESTONE	0.4	76.5
652.0	CARBONDALE		DARK SHALE	23.8	76.9
628.2	CARBONDALE	ST. DAVID	LIMESTONE	0.6	100.7
627.6	CARBONDALE	TURNER MINE	DARK SHALE	2.0	101.3
625.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	103.3
624.4	CARBONDALE	SPRINGFIELD	COAL	3.6	104.5
620.8	CARBONDALE		UNDERCLAY	1.9	108.1

MAPID: 05784150000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101041

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.695451

DATE COLLECTED: 6 / 5 / 1975

SURFACE ELEVATION (FT.): 702.9 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22934

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.9	PLEISTOCENE		CLAY & GRAVEL	18.5	0.0	
684.4	CARBONDALE		BROWN SHALE	3.0	18.5	
681.4	CARBONDALE	HERRIN	COAL	2.0	21.5	SOFT
679.4	CARBONDALE		UNDERCLAY	1.5	23.5	
677.9	CARBONDALE		GRAY SHALE	2.4	25.0	
675.5	CARBONDALE		GRAY SANDSTONE	12.6	27.4	
662.9	CARBONDALE		LIMESTONE	2.0	40.0	
660.9	CARBONDALE		SHALE & SANDSTONE	28.0	42.0	
632.9	CARBONDALE		DARK SHALE	10.8	70.0	
622.1	CARBONDALE	ST. DAVID	LIMESTONE	0.5	80.8	
621.6	CARBONDALE	TURNER MINE	DARK SHALE	2.4	81.3	
619.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	83.7	
618.4	CARBONDALE	SPRINGFIELD	COAL	3.3	84.5	
615.1	CARBONDALE		UNDERCLAY	2.2	87.8	

MAPID: 05784155000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101217

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686112

DATE COLLECTED: 6 / 10 / 1975

SURFACE ELEVATION (FT.): 713.5 LOGGED (FT.): 87.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22939

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
713.5	PLEISTOCENE		CLAY & GRAVEL	23.0	0.0
690.5	CARBONDALE		GRAY SHALE	7.0	23.0
683.5	CARBONDALE		GRAY SANDSTONE	16.5	30.0
667.0	CARBONDALE		GRAY SHALE	6.0	46.5
661.0	CARBONDALE		LIMESTONE	0.3	52.5
660.7	CARBONDALE		GRAY SHALE	5.9	52.8
654.8	CARBONDALE		LIMESTONE	0.7	58.7
654.1	CARBONDALE		GRAY SHALE	17.8	59.4
636.3	CARBONDALE	ST. DAVID	LIMESTONE	0.3	77.2
636.0	CARBONDALE	TURNER MINE	DARK SHALE	2.5	77.5
633.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	80.0
632.5	CARBONDALE	SPRINGFIELD	COAL	3.7	81.0
628.8	CARBONDALE		UNDERCLAY	2.3	84.7

MAPID: 05784157000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110699

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691545

DATE COLLECTED: 5 / 9 / 1975

SURFACE ELEVATION (FT.): 703.2 LOGGED (FT.): 84.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23127

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
703.2	PLEISTOCENE		SOIL	1.0	0.0
702.2	PLEISTOCENE		CLAY	24.0	1.0
678.2	CARBONDALE		SANDSTONE	2.0	25.0
676.2	CARBONDALE		GRAY SHALE	19.0	27.0
657.2	CARBONDALE		SANDSTONE	14.0	46.0
643.2	CARBONDALE		SANDY SHALE	16.0	60.0
627.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	76.0
626.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	76.4
625.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	78.0
624.4	CARBONDALE	SPRINGFIELD	COAL	3.3	78.8
621.1	CARBONDALE		UNDERCLAY	1.9	82.1

MAPID: 05784158000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103054

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691446

DATE COLLECTED: 5 / 9 / 1975

SURFACE ELEVATION (FT.): 698.2 LOGGED (FT.): 76.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23128

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
698.2	PLEISTOCENE		SOIL	1.0	0.0
697.2	PLEISTOCENE		CLAY	23.0	1.0
674.2	CARBONDALE		GRAY SHALE	16.0	24.0
658.2	CARBONDALE		SANDSTONE	28.0	40.0
630.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	68.0
629.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	68.4
628.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	70.0
627.4	CARBONDALE	SPRINGFIELD	COAL	3.3	70.8
624.1	CARBONDALE		UNDERCLAY	1.9	74.1

MAPID: 05784159000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101343

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691449

DATE COLLECTED: 5 / 12 / 1975

SURFACE ELEVATION (FT.): 694.4 LOGGED (FT.): 69.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23129

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
694.4	PLEISTOCENE		SOIL	1.0	0.0
693.4	PLEISTOCENE		CLAY	24.0	1.0
669.4	CARBONDALE		GRAY SHALE	15.0	25.0
654.4	CARBONDALE		SANDSTONE	22.2	40.0 SOFT
632.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	62.2
631.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	62.6
631.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	63.2
630.6	CARBONDALE	SPRINGFIELD	COAL	3.2	63.8
627.4	CARBONDALE		UNDERCLAY	2.0	67.0

MAPID: 05784168000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110544

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.69127

DATE COLLECTED: 11 / 15 / 1958

SURFACE ELEVATION (FT.): 703.1 LOGGED (FT.): 78.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6515

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
703.1	PLEISTOCENE		SOIL	1.0	0.0
702.1	PLEISTOCENE		CLAY	9.2	1.0
692.9	PLEISTOCENE		CLAY & GRAVEL	9.3	10.2
683.6	PLEISTOCENE		CLAY, SAND & GRAVEL	9.6	19.5
674.0	CARBONDALE		GRAY SHALE	8.4	29.1
665.6	CARBONDALE		LIMESTONE	0.9	37.5
664.7	CARBONDALE		SHALE	8.1	38.4
656.6	CARBONDALE		LIMESTONE	1.7	46.5
654.9	CARBONDALE		SHALE	3.3	48.2
651.6	CARBONDALE		SANDSTONE	8.0	51.5
643.6	CARBONDALE		SHALE & SANDSTONE	11.3	59.5
632.3	CARBONDALE	ST. DAVID	LIMESTONE	0.3	70.8
632.0	CARBONDALE	TURNER MINE	DARK SHALE	1.0	71.1
631.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	72.1
629.6	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.7	73.5
625.9	CARBONDALE		UNDERCLAY	0.8	77.2

MAPID: 05784169000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110674

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689496

DATE COLLECTED: 11 / 8 / 1958

SURFACE ELEVATION (FT.): 712.1 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6516

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.1	PLEISTOCENE		SOIL	1.0	0.0	
711.1	PLEISTOCENE		CLAY	8.8	1.0	
702.3	PLEISTOCENE		CLAY & GRAVEL	11.2	9.8	
691.1	CARBONDALE	HERRIN	COAL	2.5	21.0	SOFT TOP ERODED
688.6	CARBONDALE		UNDERCLAY	1.5	23.5	
687.1	CARBONDALE		GRAY SHALE	20.8	25.0	
666.3	CARBONDALE		LIMESTONE	0.5	45.8	
665.8	CARBONDALE		GRAY SHALE	11.2	46.3	
654.6	CARBONDALE		SHALE & SANDSTONE	19.5	57.5	
635.1	CARBONDALE	ST. DAVID	LIMESTONE	0.5	77.0	
634.6	CARBONDALE	TURNER MINE	DARK SHALE	1.0	77.5	
633.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	78.5	
632.2	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.0	79.9	
628.2	CARBONDALE		UNDERCLAY	1.1	83.9	

MAPID: 0578417000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110625

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687725

DATE COLLECTED: 11 / 7 / 1958

SURFACE ELEVATION (FT.): 684.6 LOGGED (FT.): 60.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6517

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.6	PLEISTOCENE		CLAY	14.9	0.0
669.7	PLEISTOCENE		CLAY & GRAVEL	9.0	14.9
660.7	PLEISTOCENE		CLAY	2.0	23.9
658.7	CARBONDALE		SANDY SHALE	6.8	25.9
651.9	CARBONDALE		SHALE	1.2	32.7
650.7	CARBONDALE		LIMESTONE	0.3	33.9
650.4	CARBONDALE		GRAY SHALE	6.9	34.2
643.5	CARBONDALE		GRAY SANDSTONE	11.7	41.1
631.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	52.8
631.4	CARBONDALE	TURNER MINE	DARK SHALE	1.3	53.2
630.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	54.5
628.7	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.0	55.9
624.7	CARBONDALE		UNDERCLAY	0.3	59.9

MAPID: 05784171000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11057

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.690523

DATE COLLECTED: 5 / 8 / 1962

SURFACE ELEVATION (FT.): 704.2 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7476

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
704.2	PLEISTOCENE		SOIL	1.0	0.0
703.2	PLEISTOCENE		CLAY	20.8	1.0
682.4	PLEISTOCENE		CLAY & GRAVEL	8.1	21.8
674.3	CARBONDALE		GRAY SHALE	14.9	29.9
659.4	CARBONDALE		GRAY SANDSTONE	2.5	44.8
656.9	CARBONDALE		GRAY SHALE	3.8	47.3
653.1	CARBONDALE		DARK SHALE	15.6	51.1
637.5	CARBONDALE	ST. DAVID	LIMESTONE	0.3	66.7
637.2	CARBONDALE	TURNER MINE	DARK SHALE	1.4	67.0
635.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	68.4
634.6	CARBONDALE	SPRINGFIELD	COAL	3.7	69.6
630.9	CARBONDALE		UNDERCLAY	1.7	73.3

MAPID: 05784172000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11165

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6905

DATE COLLECTED: 5 / 9 / 1962

SURFACE ELEVATION (FT.): 702.6 LOGGED (FT.): 78.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7477

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.6	PLEISTOCENE		SOIL	1.0	0.0	
701.6	PLEISTOCENE		CLAY	17.0	1.0	
684.6	PLEISTOCENE		CLAY	8.8	18.0	& BOULDERS
675.8	CARBONDALE		CALCAREOUS SHALE	20.0	26.8	
655.8	CARBONDALE		LIMESTONE	1.1	46.8	
654.7	CARBONDALE		GRAY SHALE	5.5	47.9	
649.2	CARBONDALE		DARK SHALE	9.0	53.4	
640.2	CARBONDALE		LIMESTONE	0.4	62.4	
639.8	CARBONDALE		DARK SHALE	7.6	62.8	
632.2	CARBONDALE	ST. DAVID	LIMESTONE	0.5	70.4	
631.7	CARBONDALE	TURNER MINE	DARK SHALE	1.3	70.9	
630.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	72.2	
629.3	CARBONDALE	SPRINGFIELD	COAL	3.6	73.3	
625.7	CARBONDALE		UNDERCLAY	1.1	76.9	

MAPID: 05784173000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110732 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688682 DATE COLLECTED: 5 / 15 / 1962

SURFACE ELEVATION (FT.): 697.5 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7489 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
697.5	PLEISTOCENE		SOIL	1.0	0.0
696.5	PLEISTOCENE		CLAY	12.9	1.0
683.6	CARBONDALE		BROWN SHALE	10.4	13.9
673.2	CARBONDALE		GRAY SHALE	15.3	24.3
657.9	CARBONDALE		LIMESTONE	1.6	39.6
656.3	CARBONDALE		GRAY SHALE	1.2	41.2
655.1	CARBONDALE		LIMESTONE	0.4	42.4
654.7	CARBONDALE		DARK SHALE	2.0	42.8
652.7	CARBONDALE		LIMESTONE	1.0	44.8
651.7	CARBONDALE		DARK SHALE	20.2	45.8
631.5	CARBONDALE	ST. DAVID	LIMESTONE	0.3	66.0
631.2	CARBONDALE	TURNER MINE	DARK SHALE	1.2	66.3
630.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	67.5
628.7	CARBONDALE	SPRINGFIELD	COAL	3.9	68.8
624.8	CARBONDALE		UNDERCLAY	1.3	72.7

MAPID: 05784174000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106307 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685791 DATE COLLECTED: 5 / 25 / 1962

SURFACE ELEVATION (FT.): 695.1 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7529 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
695.1	PLEISTOCENE		SOIL	1.0	0.0
694.1	PLEISTOCENE		CLAY	10.9	1.0
683.2	CARBONDALE		GRAY SHALE	20.7	11.9
662.5	CARBONDALE		DARK SHALE	26.0	32.6
636.5	CARBONDALE	ST. DAVID	LIMESTONE	0.9	58.6
635.6	CARBONDALE	TURNER MINE	DARK SHALE	1.3	59.5
634.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	60.8
633.0	CARBONDALE	SPRINGFIELD	COAL	3.9	62.1
629.1	CARBONDALE		UNDERCLAY	1.0	66.0

MAPID: 05784175000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106629

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687466

DATE COLLECTED: 5 / 29 / 1962

SURFACE ELEVATION (FT.): 640.6 LOGGED (FT.): 12.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7536

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.6	PLEISTOCENE		CLAY, SAND & GRAVEL	7.5	0.0	
633.1	CARBONDALE	SPRINGFIELD	COAL	0.6	7.5	SOFT BROKEN; TOP ERODED
632.5	CARBONDALE	SPRINGFIELD	COAL	2.3	8.1	
630.2	CARBONDALE		UNDERCLAY	1.6	10.4	

MAPID: 05784176000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105233

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687763

DATE COLLECTED: 5 / 29 / 1962

SURFACE ELEVATION (FT.): 642.5 LOGGED (FT.): 25.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7537

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
642.5	PLEISTOCENE		CLAY & GRAVEL	6.9	0.0	YELLOW
635.6	PLEISTOCENE		CLAY & GRAVEL	2.3	6.9	GRAY
633.3	CARBONDALE		SANDY SHALE	4.4	9.2	
628.9	CARBONDALE		LIMESTONE	1.9	13.6	
627.0	CARBONDALE		GRAY SHALE	1.6	15.5	
625.4	CARBONDALE		LIMESTONE	0.6	17.1	
624.8	CARBONDALE		GRAY SHALE	7.3	17.7	

MAPID: 05784177000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10583

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687655

DATE COLLECTED: 5 / 24 / 1962

SURFACE ELEVATION (FT.): 645.0 LOGGED (FT.): 30.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7538

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.0	PLEISTOCENE		CLAY & GRAVEL	13.3	0.0	
631.7	CARBONDALE		GRAY SHALE	4.3	13.3	
627.4	CARBONDALE		LIMESTONE	2.0	17.6	
625.4	CARBONDALE		GRAY SHALE	10.4	19.6	

MAPID: 05784178000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10635 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.687482 DATE COLLECTED: 5 / 29 / 1962
SURFACE ELEVATION (FT.): 644.4 LOGGED (FT.): 19.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 7539 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
644.4	PLEISTOCENE		CLAY, SAND & GRAVEL	12.0	0.0
632.4	CARBONDALE		GRAY SHALE	5.8	12.0
626.6	CARBONDALE		LIMESTONE	1.2	17.8

MAPID: 05784179000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105966 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.687495 DATE COLLECTED: 6 / 1 / 1962
SURFACE ELEVATION (FT.): 645.7 LOGGED (FT.): 18.6 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 7545 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
645.7	PLEISTOCENE		SOIL	1.0	0.0
644.7	PLEISTOCENE		CLAY, SAND & GRAVEL	11.8	1.0
632.9	CARBONDALE		GRAY SHALE	5.4	12.8
627.5	CARBONDALE		LIMESTONE	0.4	18.2

MAPID: 05784180000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105528 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.687549 DATE COLLECTED: 6 / 1 / 1962
SURFACE ELEVATION (FT.): 645.5 LOGGED (FT.): 17.2 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 7547 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
645.5	PLEISTOCENE		SOIL	1.0	0.0
644.5	PLEISTOCENE		CLAY & GRAVEL	7.9	1.0
636.6	CARBONDALE	SPRINGFIELD	COAL	1.7	8.9 SOFT BROKEN; TOP ERODED
634.9	CARBONDALE	SPRINGFIELD	COAL	1.5	10.6
633.4	CARBONDALE		UNDERCLAY	1.9	12.1
631.5	CARBONDALE		GRAY SHALE	3.2	14.0

MAPID: 05784181000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105264

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687609

DATE COLLECTED: 6 / 1 / 1962

SURFACE ELEVATION (FT.): 647.6 LOGGED (FT.): 14.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7548

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
647.6	PLEISTOCENE		SOIL	1.0	0.0	
646.6	PLEISTOCENE		CLAY & GRAVEL	8.9	1.0	
637.7	CARBONDALE	SPRINGFIELD	COAL	0.5	9.9	SOFT BROKEN; TOP ERODED
637.2	CARBONDALE	SPRINGFIELD	COAL	2.4	10.4	SOFT
634.8	CARBONDALE		UNDERCLAY	1.2	12.8	

MAPID: 05784182000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105019

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687728

DATE COLLECTED: 6 / 1 / 1962

SURFACE ELEVATION (FT.): 646.8 LOGGED (FT.): 14.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7549

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.8	PLEISTOCENE		SOIL	1.0	0.0	
645.8	PLEISTOCENE		CLAY	6.4	1.0	
639.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	7.4	
638.3	CARBONDALE	SPRINGFIELD	COAL	0.4	8.5	BROKEN
637.9	CARBONDALE	SPRINGFIELD	COAL	3.4	8.9	
634.5	CARBONDALE		UNDERCLAY	1.7	12.3	

MAPID: 05784183000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104588

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687758

DATE COLLECTED: 6 / 1 / 1962

SURFACE ELEVATION (FT.): 649.9 LOGGED (FT.): 16.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7550

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.9	PLEISTOCENE		SOIL	1.0	0.0	
648.9	PLEISTOCENE		CLAY	10.4	1.0	
638.5	CARBONDALE	SPRINGFIELD	COAL	1.0	11.4	BROKEN; TOP ERODED
637.5	CARBONDALE	SPRINGFIELD	COAL	2.4	12.4	SOFT
635.1	CARBONDALE		UNDERCLAY	1.2	14.8	

MAPID: 05784184000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105236

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686042

DATE COLLECTED: 6 / 1 / 1962

SURFACE ELEVATION (FT.): 704.5 LOGGED (FT.): 76.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7551

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.5	PLEISTOCENE		SOIL	1.0	0.0	
703.5	PLEISTOCENE		CLAY	16.9	1.0	
686.6	CARBONDALE		GRAY SHALE	32.0	17.9	
654.6	CARBONDALE		DARK SHALE	18.5	49.9	
636.1	CARBONDALE	ST. DAVID	LIMESTONE	0.3	68.4	
635.8	CARBONDALE	TURNER MINE	DARK SHALE	1.2	68.7	
634.6	CARBONDALE	TURNER MINE	DARK SHALE	1.2	69.9	
633.4	CARBONDALE	SPRINGFIELD	COAL	3.7	71.1	
629.7	CARBONDALE		UNDERCLAY	1.6	74.8	

MAPID: 05784185000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104023

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686194

DATE COLLECTED: 6 / 2 / 1962

SURFACE ELEVATION (FT.): 705.1 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7553

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.1	PLEISTOCENE		SOIL	1.0	0.0	
704.1	PLEISTOCENE		CLAY	8.5	1.0	
695.6	CARBONDALE	HERRIN	COAL	1.5	9.5	BLOSSOM; TOP ERODED
694.1	CARBONDALE		CLAYSTONE	5.7	11.0	SANDY
688.4	CARBONDALE		SANDY SHALE	3.5	16.7	
684.9	CARBONDALE		GRAY SHALE	17.4	20.2	
667.5	CARBONDALE		DARK SHALE	28.9	37.6	
638.6	CARBONDALE	ST. DAVID	LIMESTONE	0.5	66.5	
638.1	CARBONDALE	TURNER MINE	DARK SHALE	1.5	67.0	
636.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	68.5	
635.6	CARBONDALE	SPRINGFIELD	COAL	3.8	69.5	
631.8	CARBONDALE		UNDERCLAY	1.7	73.3	

MAPID: 05784186000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103884

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687709

DATE COLLECTED: 6 / 4 / 1962

SURFACE ELEVATION (FT.): 656.6 LOGGED (FT.): 20.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7555

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
656.6	PLEISTOCENE		CLAY	10.8	0.0	
645.8	CARBONDALE		GRAY SHALE	2.2	10.8	
643.6	CARBONDALE	ST. DAVID	LIMESTONE	0.2	13.0	
643.4	CARBONDALE	TURNER MINE	DARK SHALE	1.6	13.2	
641.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	14.8	
640.8	CARBONDALE	SPRINGFIELD	COAL	3.7	15.8	
637.1	CARBONDALE		UNDERCLAY	1.0	19.5	

MAPID: 05784187000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102154

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686681

DATE COLLECTED: 6 / 4 / 1962

SURFACE ELEVATION (FT.): 707.1 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7556

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
707.1	PLEISTOCENE		SOIL	1.0	0.0
706.1	PLEISTOCENE		CLAY	3.0	1.0
703.1	CARBONDALE		SANDSTONE	7.0	4.0
696.1	CARBONDALE		GRAY SHALE	1.1	11.0
695.0	CARBONDALE	HERRIN	COAL	1.6	12.1
693.4	CARBONDALE	HERRIN	BLUE BAND	0.2	13.7
693.2	CARBONDALE	HERRIN	COAL	1.8	13.9
691.4	CARBONDALE		UNDERCLAY	1.3	15.7
690.1	CARBONDALE		SHALE & SANDSTONE	30.4	17.0
659.7	CARBONDALE		LIMESTONE	0.3	47.4
659.4	CARBONDALE		GRAY SHALE	7.7	47.7
651.7	CARBONDALE		LIMESTONE	0.3	55.4
651.4	CARBONDALE		DARK SHALE	15.7	55.7
635.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	71.4
635.3	CARBONDALE	TURNER MINE	DARK SHALE	1.3	71.8
634.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	73.1
632.8	CARBONDALE	SPRINGFIELD	COAL	3.8	74.3
629.0	CARBONDALE		UNDERCLAY	1.9	78.1

MAPID: 05784188000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101358

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686848

DATE COLLECTED: 6 / 4 / 1962

SURFACE ELEVATION (FT.): 716.6 LOGGED (FT.): 87.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7557

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
716.6	PLEISTOCENE		CLAY	12.7	0.0
703.9	CARBONDALE		BROWN SHALE	7.1	12.7
696.8	CARBONDALE	HERRIN	COAL	3.8	19.8
693.0	CARBONDALE		UNDERCLAY	1.4	23.6
691.6	CARBONDALE		GRAY SHALE	24.0	25.0
667.6	CARBONDALE		LIMESTONE	0.3	49.0
667.3	CARBONDALE		DARK SHALE	29.5	49.3
637.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	78.8
637.4	CARBONDALE	TURNER MINE	DARK SHALE	1.4	79.2
636.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	80.6
634.9	CARBONDALE	SPRINGFIELD	COAL	3.9	81.7
631.0	CARBONDALE		UNDERCLAY	1.4	85.6

MAPID: 05784189000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101608

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687644

DATE COLLECTED: 6 / 5 / 1962

SURFACE ELEVATION (FT.): 695.7 LOGGED (FT.): 68.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7559

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
695.7	PLEISTOCENE		CLAY	9.5	0.0
686.2	CARBONDALE		SANDY SHALE	10.4	9.5
675.8	CARBONDALE		GRAY SHALE	8.2	19.9
667.6	CARBONDALE		LIMESTONE	1.3	28.1
666.3	CARBONDALE		GRAY SHALE	6.1	29.4
660.2	CARBONDALE		LIMESTONE	0.2	35.5
660.0	CARBONDALE		GRAY SHALE	4.3	35.7
655.7	CARBONDALE		DARK SHALE	19.2	40.0
636.5	CARBONDALE	ST. DAVID	LIMESTONE	0.3	59.2
636.2	CARBONDALE	TURNER MINE	DARK SHALE	1.8	59.5
634.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	61.3
633.3	CARBONDALE	SPRINGFIELD	COAL	3.7	62.4
629.6	CARBONDALE		UNDERCLAY	1.9	66.1

MAPID: 0578419000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.111573

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688738

DATE COLLECTED: 6 / 7 / 1962

SURFACE ELEVATION (FT.): 705.6 LOGGED (FT.): 81.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7560

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.6	PLEISTOCENE		SOIL	1.0	0.0	
704.6	PLEISTOCENE		CLAY	11.8	1.0	
692.8	CARBONDALE		BROWN SHALE	3.8	12.8	
689.0	CARBONDALE	HERRIN	COAL	1.3	16.6	
687.7	CARBONDALE	HERRIN	COAL	0.5	17.9	
687.2	CARBONDALE		UNDERCLAY	1.6	18.4	
685.6	CARBONDALE		SHALE & SANDSTONE	33.2	20.0	
652.4	CARBONDALE		LIMESTONE	1.6	53.2	
650.8	CARBONDALE		DARK SHALE	19.0	54.8	
631.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	73.8	
631.3	CARBONDALE	TURNER MINE	DARK SHALE	1.2	74.3	
630.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	75.5	
629.1	CARBONDALE	SPRINGFIELD	COAL	3.8	76.5	
625.3	CARBONDALE		UNDERCLAY	1.0	80.3	

MAPID: 05784191000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.111613

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689601

DATE COLLECTED: 6 / 7 / 1962

SURFACE ELEVATION (FT.): 706.8 LOGGED (FT.): 83.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7561

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.8	PLEISTOCENE		SOIL	1.0	0.0	
705.8	PLEISTOCENE		CLAY	18.1	1.0	YELLOW
687.7	PLEISTOCENE		CLAY	4.6	19.1	GRAY
683.1	CARBONDALE		SANDY SHALE	1.9	23.7	
681.2	CARBONDALE		GRAY SHALE	26.8	25.6	
654.4	CARBONDALE		LIMESTONE	1.3	52.4	
653.1	CARBONDALE		DARK SHALE	20.8	53.7	
632.3	CARBONDALE	ST. DAVID	LIMESTONE	1.0	74.5	
631.3	CARBONDALE	TURNER MINE	DARK SHALE	1.2	75.5	
630.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	76.7	
628.8	CARBONDALE	SPRINGFIELD	COAL	3.7	78.0	
625.1	CARBONDALE		UNDERCLAY	1.3	81.7	

MAPID: 05784192000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.111512

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691309

DATE COLLECTED: 6 / 8 / 1962

SURFACE ELEVATION (FT.): 700.7 LOGGED (FT.): 81.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7562

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.7	PLEISTOCENE		SOIL	1.0	0.0	
699.7	PLEISTOCENE		CLAY	15.0	1.0	
684.7	PLEISTOCENE		CLAY	7.8	16.0	
676.9	CARBONDALE		SANDSTONE	0.8	23.8	
676.1	CARBONDALE		SHALE & SANDSTONE	29.4	24.6	
646.7	CARBONDALE		DARK SHALE	21.2	54.0	
625.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	75.2	
624.2	CARBONDALE	SPRINGFIELD	COAL	3.7	76.5	
620.5	CARBONDALE		UNDERCLAY	0.8	80.2	

MAPID: 05784193000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10841

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687143

DATE COLLECTED: 6 / 11 / 1962

SURFACE ELEVATION (FT.): 639.8 LOGGED (FT.): 14.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7567

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
639.8	PLEISTOCENE		SANDY CLAY	5.6	0.0	YELLOW
634.2	PLEISTOCENE		SANDY CLAY	1.9	5.6	
632.3	CARBONDALE		BLACK SHALE	1.1	7.5	SOFT GRAY
631.2	CARBONDALE	SPRINGFIELD	COAL	3.7	8.6	SOFT
627.5	CARBONDALE		UNDERCLAY	1.7	12.3	

MAPID: 05784194000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106886

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687352

DATE COLLECTED: 6 / 11 / 1962

SURFACE ELEVATION (FT.): 641.9 LOGGED (FT.): 12.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7573

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
641.9	PLEISTOCENE		CLAY, SAND & GRAVEL	4.9	0.0	
637.0	PLEISTOCENE		CLAY & GRAVEL	3.8	4.9	
633.2	CARBONDALE	SPRINGFIELD	COAL	1.1	8.7	SOFT BROKEN; TOP ERODED
632.1	CARBONDALE	SPRINGFIELD	COAL	1.0	9.8	SOFT
631.1	CARBONDALE		UNDERCLAY	1.2	10.8	

MAPID: 05784195000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106605

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687638

DATE COLLECTED: 6 / 11 / 1962

SURFACE ELEVATION (FT.): 645.7 LOGGED (FT.): 16.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7574

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.7	PLEISTOCENE		SOIL	1.0	0.0	
644.7	PLEISTOCENE		CLAY & GRAVEL	8.0	1.0	
636.7	PLEISTOCENE		CLAY	1.2	9.0	
635.5	CARBONDALE	SPRINGFIELD	COAL	1.1	10.2	SOFT BROKEN; TOP ERODED
634.4	CARBONDALE	SPRINGFIELD	COAL	2.6	11.3	SOFT
631.8	CARBONDALE		UNDERCLAY	2.1	13.9	

MAPID: 05784196000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106907

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687713

DATE COLLECTED: 6 / 12 / 1962

SURFACE ELEVATION (FT.): 645.8 LOGGED (FT.): 20.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7575

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.8	PLEISTOCENE		SOIL	1.0	0.0	
644.8	PLEISTOCENE		CLAY	9.8	1.0	
635.0	PLEISTOCENE		SANDY CLAY	1.0	10.8	
634.0	PLEISTOCENE		SAND & GRAVEL	0.6	11.8	
633.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	12.4	
631.6	CARBONDALE	SPRINGFIELD	COAL	1.4	14.2	BROKEN
630.2	CARBONDALE	SPRINGFIELD	COAL	2.4	15.6	SOFT
627.8	CARBONDALE		UNDERCLAY	2.0	18.0	

MAPID: 05784197000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107122

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687478

DATE COLLECTED: 6 / 12 / 1962

SURFACE ELEVATION (FT.): 645.1 LOGGED (FT.): 17.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7576

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.1	PLEISTOCENE		SOIL	1.0	0.0	
644.1	PLEISTOCENE		CLAY, SAND & GRAVEL	10.0	1.0	
634.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	11.0	
633.4	CARBONDALE	SPRINGFIELD	COAL	0.6	11.7	
632.8	CARBONDALE	SPRINGFIELD	COAL	3.2	12.3	
629.6	CARBONDALE		UNDERCLAY	1.5	15.5	

MAPID: 05784198000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108157

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687679

DATE COLLECTED: 6 / 12 / 1962

SURFACE ELEVATION (FT.): 646.9 LOGGED (FT.): 21.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7577

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
646.9	PLEISTOCENE		SOIL	1.0	0.0
645.9	PLEISTOCENE		CLAY & GRAVEL	6.3	1.0
639.6	PLEISTOCENE		SANDY CLAY	3.3	7.3
636.3	CARBONDALE		GRAY SHALE	2.7	10.6
633.6	CARBONDALE	ST. DAVID	LIMESTONE	0.3	13.3
633.3	CARBONDALE	TURNER MINE	DARK SHALE	1.3	13.6
632.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	14.9
630.6	CARBONDALE	SPRINGFIELD	COAL	3.8	16.3
626.8	CARBONDALE		UNDERCLAY	1.0	20.1

MAPID: 05784199000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109502

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687761

DATE COLLECTED: 6 / 12 / 1962

SURFACE ELEVATION (FT.): 674.0 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7582

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
674.0	PLEISTOCENE		SOIL	1.0	0.0
673.0	PLEISTOCENE		CLAY & GRAVEL	20.8	1.0
652.2	CARBONDALE		DARK SHALE	21.2	21.8
631.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	43.0
629.9	CARBONDALE	SPRINGFIELD	COAL	3.8	44.1
626.1	CARBONDALE		UNDERCLAY	2.1	47.9

MAPID: 05784264000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117783

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.68723

DATE COLLECTED: 11 / 18 / 1963

SURFACE ELEVATION (FT.): 699.6 LOGGED (FT.): 74.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8569

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
699.6	PLEISTOCENE		SOIL	1.0	0.0
698.6	PLEISTOCENE		SANDY CLAY	20.4	1.0
678.2	PLEISTOCENE		CLAY & GRAVEL	44.6	21.4
633.6	PLEISTOCENE		CLAY	5.2	66.0
628.4	CARBONDALE		LIMESTONE	0.6	71.2
627.8	CARBONDALE		GRAY SHALE	2.8	71.8

MAPID: 05784265000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102453

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687719

DATE COLLECTED: 6 / 5 / 1962

SURFACE ELEVATION (FT.): 693.0 LOGGED (FT.): 62.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7558

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
693.0	PLEISTOCENE		CLAY	7.1	0.0
685.9	PLEISTOCENE		SHALE	15.8	7.1
670.1	CARBONDALE		LIMESTONE	0.8	22.9
669.3	CARBONDALE		GRAY SHALE	31.5	23.7
637.8	CARBONDALE	ST. DAVID	LIMESTONE	0.3	55.2
637.5	CARBONDALE	TURNER MINE	DARK SHALE	1.3	55.5
636.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	56.8
635.0	CARBONDALE	SPRINGFIELD	COAL	3.8	58.0
631.2	CARBONDALE		UNDERCLAY	1.0	61.8

MAPID: 05784363000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109316

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691693

DATE COLLECTED: 6 / 16 / 1965

SURFACE ELEVATION (FT.): 698.2 LOGGED (FT.): 77.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8830

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
698.2	PLEISTOCENE		SOIL	1.0	0.0
697.2	PLEISTOCENE		CLAY	3.9	1.0
693.3	PLEISTOCENE		SOIL	0.6	4.9
692.7	PLEISTOCENE		CLAY, SAND & GRAVEL	18.7	5.5
674.0	CARBONDALE		GRAY SHALE	9.5	24.2
664.5	CARBONDALE		DARK SHALE	35.5	33.7
629.0	CARBONDALE	ST. DAVID	LIMESTONE	0.3	69.2
628.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	69.5
627.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.2	70.5
625.5	CARBONDALE	SPRINGFIELD	COAL	4.5	72.7
621.0	CARBONDALE		UNDERCLAY	0.7	77.2

MAPID: 05784364000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109334

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691671

DATE COLLECTED: 6 / 16 / 1965

SURFACE ELEVATION (FT.): 698.8 LOGGED (FT.): 77.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8831

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
698.8	PLEISTOCENE		SOIL	1.0	0.0
697.8	PLEISTOCENE		CLAY	3.9	1.0
693.9	PLEISTOCENE		SOIL	0.6	4.9
693.3	PLEISTOCENE		CLAY, SAND & GRAVEL	18.7	5.5
674.6	CARBONDALE		GRAY SHALE	11.5	24.2
663.1	CARBONDALE		DARK SHALE	33.5	35.7
629.6	CARBONDALE	ST. DAVID	LIMESTONE	0.3	69.2
629.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	69.5
628.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.2	70.5
626.1	CARBONDALE	SPRINGFIELD	COAL	4.3	72.7
621.8	CARBONDALE		UNDERCLAY	0.5	77.0

MAPID: 05784365000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109344

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691635

DATE COLLECTED: 6 / 15 / 1965

SURFACE ELEVATION (FT.): 699.0 LOGGED (FT.): 77.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8832

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
699.0	PLEISTOCENE		SOIL	1.0	0.0
698.0	PLEISTOCENE		CLAY	4.9	1.0
693.1	PLEISTOCENE		CLAY, SAND & GRAVEL	18.4	5.9
674.7	CARBONDALE		SHALE & SANDSTONE	29.6	24.3
645.1	CARBONDALE		DARK SHALE	16.1	53.9
629.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	70.0
628.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.4	70.5
626.1	CARBONDALE	SPRINGFIELD	COAL	4.3	72.9
621.8	CARBONDALE		UNDERCLAY	0.7	77.2

MAPID: 05784366000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109026

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691708

DATE COLLECTED: 6 / 18 / 1965

SURFACE ELEVATION (FT.): 703.1 LOGGED (FT.): 82.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8834

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
703.1	PLEISTOCENE		SOIL	1.0	0.0
702.1	PLEISTOCENE		CLAY	23.3	1.0
678.8	CARBONDALE		SHALE & SANDSTONE	17.4	24.3
661.4	CARBONDALE		GRAY SHALE	15.6	41.7
645.8	CARBONDALE		DARK SHALE	16.9	57.3
628.9	CARBONDALE	ST. DAVID	LIMESTONE	0.4	74.2
628.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	74.6
627.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	75.8
625.5	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.3	77.6
621.3	CARBONDALE		UNDERCLAY	0.5	81.8

MAPID: 05784367000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10904 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691637 DATE COLLECTED: 6 / 20 / 1965

SURFACE ELEVATION (FT.): 703.4 LOGGED (FT.): 82.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8836 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
703.4	PLEISTOCENE		SOIL	1.0	0.0
702.4	PLEISTOCENE		CLAY	16.9	1.0
685.5	PLEISTOCENE		SAND & GRAVEL	6.8	17.9
678.7	CARBONDALE		GRAY SHALE	6.3	24.7
672.4	CARBONDALE		SHALE & SANDSTONE	26.4	31.0
646.0	CARBONDALE		DARK SHALE	16.8	57.4
629.2	CARBONDALE	ST. DAVID	LIMESTONE	0.5	74.2
628.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	74.7
627.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	76.0
625.4	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.0	78.0
621.4	CARBONDALE		UNDERCLAY	0.5	82.0

MAPID: 05786145000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10159 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.694433 DATE COLLECTED: 7 / 28 / 1977

SURFACE ELEVATION (FT.): 702.4 LOGGED (FT.): 96.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26994 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
702.4	PLEISTOCENE		CLAY & GRAVEL	23.0	0.0
679.4	CARBONDALE		GRAY SANDSTONE	11.8	23.0
667.6	CARBONDALE		GRAY SHALE	2.8	34.8
664.8	CARBONDALE		ROCK	1.4	37.6 HARD
663.4	CARBONDALE		SANDSTONE	1.5	39.0
661.9	CARBONDALE		GRAY SHALE	22.4	40.5
639.5	CARBONDALE		SANDSTONE	2.3	62.9
637.2	CARBONDALE		SHALE & SANDSTONE	21.6	65.2
615.6	CARBONDALE	ST. DAVID	LIMESTONE	0.3	86.8
615.3	CARBONDALE	TURNER MINE	DARK SHALE	1.6	87.1
613.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	88.7
612.3	CARBONDALE	SPRINGFIELD	COAL	3.8	90.1
608.5	CARBONDALE		UNDERCLAY	2.1	93.9

MAPID: 05786341000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.1013 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.692266 DATE COLLECTED: 11 / 25 / 1981

SURFACE ELEVATION (FT.): 693.8 LOGGED (FT.): 63.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29164 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.8	PLEISTOCENE		SOIL	1.0	0.0	
692.8	PLEISTOCENE		CLAY	11.5	1.0	YELLOW
681.3	PLEISTOCENE		CLAY	7.0	12.5	GRAY
674.3	CARBONDALE		GRAY SHALE	37.0	19.5	
637.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	56.5	
635.5	CARBONDALE	SPRINGFIELD	COAL	3.7	58.3	
631.8	CARBONDALE		UNDERCLAY	1.0	62.0	

MAPID: 05786342000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101347 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691488 DATE COLLECTED: 11 / 25 / 1981

SURFACE ELEVATION (FT.): 694.6 LOGGED (FT.): 69.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29167 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.6	PLEISTOCENE		SOIL	1.0	0.0	
693.6	PLEISTOCENE		CLAY	14.5	1.0	
679.1	PLEISTOCENE		CLAY	7.5	15.5	
671.6	CARBONDALE		CALCAREOUS SHALE	38.2	23.0	
633.4	CARBONDALE	TURNER MINE	DARK SHALE	1.3	61.2	
632.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	62.5	
631.0	CARBONDALE	SPRINGFIELD	COAL	3.8	63.6	
627.2	CARBONDALE		UNDERCLAY	1.6	67.4	

MAPID: 05786343000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101766

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689557

DATE COLLECTED: 1 / 20 / 1983

SURFACE ELEVATION (FT.): 651.7 LOGGED (FT.): 24.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29228

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
651.7	PLEISTOCENE		SOIL	1.0	0.0
650.7	PLEISTOCENE		CLAY	8.5	1.0
642.2	CARBONDALE		SANDSTONE	2.7	9.5
639.5	CARBONDALE		GRAY SHALE	4.3	12.2
635.2	CARBONDALE	TURNER MINE	DARK SHALE	1.5	16.5
633.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	18.0
632.2	CARBONDALE	SPRINGFIELD	COAL	3.9	19.5
628.3	CARBONDALE		UNDERCLAY	0.6	23.4

MAPID: 05786344000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10178

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689919

DATE COLLECTED: 1 / 24 / 1983

SURFACE ELEVATION (FT.): 669.4 LOGGED (FT.): 43.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29235

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
669.4	PLEISTOCENE		SOIL	1.0	0.0
668.4	PLEISTOCENE		CLAY	12.0	1.0
656.4	CARBONDALE		SAND/CLAY	10.0	13.0
646.4	CARBONDALE		GRAY SHALE	12.2	23.0
634.2	CARBONDALE	ST. DAVID	LIMESTONE	0.2	35.2
634.0	CARBONDALE	TURNER MINE	DARK SHALE	1.2	35.4
632.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	36.6
631.4	CARBONDALE	SPRINGFIELD	COAL	3.7	38.0
627.7	CARBONDALE		UNDERCLAY	1.3	41.7

MAPID: 05786345000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101779

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689855

DATE COLLECTED: 1 / 25 / 1983

SURFACE ELEVATION (FT.): 664.9 LOGGED (FT.): 37.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29236

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
664.9	PLEISTOCENE		SOIL	1.0	0.0
663.9	PLEISTOCENE		CLAY	10.9	1.0
653.0	CARBONDALE		SAND/CLAY	3.5	11.9
649.5	CARBONDALE		GRAY SHALE	13.4	15.4
636.1	CARBONDALE	ST. DAVID	LIMESTONE	0.6	28.8
635.5	CARBONDALE	TURNER MINE	DARK SHALE	1.8	29.4
633.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	31.2
632.7	CARBONDALE		LIMESTONE	0.8	32.2
631.9	CARBONDALE	SPRINGFIELD	COAL	3.0	33.0
628.9	CARBONDALE		UNDERCLAY	1.0	36.0

MAPID: 05786346000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101775

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689789

DATE COLLECTED: 1 / 25 / 1983

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 32.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29237

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO AMP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
662.0	PLEISTOCENE		SOIL	1.0	0.0
661.0	PLEISTOCENE		CLAY	7.2	1.0
653.8	CARBONDALE		SAND/CLAY	7.3	8.2
646.5	CARBONDALE		GRAY SHALE	11.2	15.5
635.3	CARBONDALE	ST. DAVID	LIMESTONE	0.2	26.7
635.1	CARBONDALE	TURNER MINE	DARK SHALE	1.3	26.9
633.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	28.2
632.8	CARBONDALE	SPRINGFIELD	CAVITY	3.6	29.2

MAPID: 05786347000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11521 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691395 DATE COLLECTED: 11 / 4 / 1958

SURFACE ELEVATION (FT.): 705.6 LOGGED (FT.): 84.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 6513 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.6	PLEISTOCENE		SOIL	1.0	0.0	
704.6	PLEISTOCENE		CLAY	15.6	1.0	YELLOW
689.0	PLEISTOCENE		CLAY	1.0	16.6	DARK
688.0	CARBONDALE	HERRIN	COAL	2.0	17.6	VERY SOFT; TOP ERODED
686.0	CARBONDALE		UNDERCLAY	1.4	19.6	
684.6	CARBONDALE		GRAY SHALE	2.1	21.0	
682.5	CARBONDALE		SANDSTONE	5.7	23.1	
676.8	CARBONDALE		SHALE & SANDSTONE	21.0	28.8	
655.8	CARBONDALE		GRAY SHALE	3.0	49.8	
652.8	CARBONDALE		LIMESTONE	0.2	52.8	
652.6	CARBONDALE		GRAY SHALE	6.8	53.0	
645.8	CARBONDALE		SANDSTONE	8.4	59.8	
637.4	CARBONDALE		GRAY SHALE	7.9	68.2	
629.5	CARBONDALE	ST. DAVID	LIMESTONE	0.6	76.1	
628.9	CARBONDALE	TURNER MINE	DARK SHALE	1.0	76.7	
627.9	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	77.7	
625.9	CARBONDALE	SPRINGFIELD	COAL	3.7	79.7	
622.2	CARBONDALE		UNDERCLAY	1.0	83.4	

MAPID: 05786351000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113396

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691545

DATE COLLECTED: 5 / 9 / 1975

SURFACE ELEVATION (FT.): 702.7 LOGGED (FT.): 83.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23126

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.7	PLEISTOCENE		SOIL	1.0	0.0	
701.7	PLEISTOCENE		CLAY	19.0	1.0	
682.7	CARBONDALE		SANDSTONE	2.0	20.0	SOFT
680.7	CARBONDALE		SANDY SHALE	36.0	22.0	
644.7	CARBONDALE		DARK SANDSTONE	16.2	58.0	
628.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	74.2	
628.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	74.6	
627.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	75.7	
626.0	CARBONDALE	SPRINGFIELD	COAL	4.3	76.7	
621.7	CARBONDALE		UNDERCLAY	2.0	81.0	

MAPID: 05786352000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105637

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691693

DATE COLLECTED: 5 / 12 / 1975

SURFACE ELEVATION (FT.): 709.4 LOGGED (FT.): 87.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23130

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.4	PLEISTOCENE		SOIL	1.0	0.0	
708.4	PLEISTOCENE		CLAY	24.0	1.0	
684.4	PLEISTOCENE		CLAY, SAND & GRAVEL	7.0	25.0	
677.4	CARBONDALE		SANDSTONE	1.2	32.0	
676.2	CARBONDALE		CALCAREOUS SHALE	26.8	33.2	
649.4	CARBONDALE		DARK SANDSTONE	18.4	60.0	
631.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	78.4	
630.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	78.8	
629.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	80.0	
628.3	CARBONDALE	SPRINGFIELD	COAL	3.9	81.1	
624.4	CARBONDALE		UNDERCLAY	2.0	85.0	

MAPID: 05786353000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103783

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688549

DATE COLLECTED: 12 / 14 / 1981

SURFACE ELEVATION (FT.): 648.5 LOGGED (FT.): 16.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29176

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.5	PLEISTOCENE		CLAY	6.0	0.0	
642.5	PLEISTOCENE		SAND & GRAVEL	4.8	6.0	
637.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	10.8	
637.2	CARBONDALE	SPRINGFIELD	COAL	3.7	11.3	
633.5	CARBONDALE		UNDERCLAY	1.0	15.0	

MAPID: 05786354000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10449

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688617

DATE COLLECTED: 12 / 14 / 1981

SURFACE ELEVATION (FT.): 646.5 LOGGED (FT.): 16.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29177

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.5	PLEISTOCENE		CLAY	6.7	0.0	
639.8	PLEISTOCENE		GRAVEL	3.3	6.7	
636.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	10.0	BROKEN
635.2	CARBONDALE	SPRINGFIELD	COAL	3.5	11.3	SOFT
631.7	CARBONDALE		UNDERCLAY	1.2	14.8	

MAPID: 05786355000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103211

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688278

DATE COLLECTED: 12 / 14 / 1981

SURFACE ELEVATION (FT.): 649.9 LOGGED (FT.): 25.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29178

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.9	PLEISTOCENE		CLAY	10.0	0.0	
639.9	PLEISTOCENE		GRAVEL	4.5	10.0	
635.4	CARBONDALE	SPRINGFIELD	COAL	2.5	14.5	TOP ERODED
632.9	CARBONDALE		SHALE/UNDERCLAY	8.0	17.0	

MAPID: 05786356000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107678

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688898

DATE COLLECTED: 1 / 18 / 1973

SURFACE ELEVATION (FT.): 688.6 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29215

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.6	PLEISTOCENE		SOIL	1.0	0.0	
687.6	PLEISTOCENE		CLAY	23.2	1.0	YELLOW
664.4	PLEISTOCENE		CLAY	8.0	24.2	GRAY
656.4	CARBONDALE		GRAY SHALE	24.7	32.2	
631.7	CARBONDALE	ST. DAVID	LIMESTONE	0.2	56.9	
631.5	CARBONDALE	TURNER MINE	DARK SHALE	1.9	57.1	
629.6	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	59.0	
628.7	CARBONDALE	SPRINGFIELD	COAL	3.8	59.9	
624.9	CARBONDALE		SHALE/UNDERCLAY	6.3	63.7	

MAPID: 05786357000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106278

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688787

DATE COLLECTED: 1 / 18 / 1983

SURFACE ELEVATION (FT.): 678.5 LOGGED (FT.): 52.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29216

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.5	PLEISTOCENE		SOIL	1.0	0.0	
677.5	PLEISTOCENE		CLAY & GRAVEL	20.2	1.0	
657.3	CARBONDALE		GRAY SHALE	22.2	21.2	
635.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	43.4	
634.7	CARBONDALE	TURNER MINE	DARK SHALE	1.8	43.8	
632.9	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	45.6	
632.0	CARBONDALE	SPRINGFIELD	COAL	3.6	46.5	
628.4	CARBONDALE		UNDERCLAY	1.9	50.1	

MAPID: 05786358000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107729

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689737

DATE COLLECTED: 1 / 18 / 1983

SURFACE ELEVATION (FT.): 700.8 LOGGED (FT.): 76.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29217

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.8	PLEISTOCENE		SOIL	1.0	0.0	
699.8	PLEISTOCENE		CLAY	18.0	1.0	
681.8	CARBONDALE		SANDSTONE	8.6	19.0	SOFT
673.2	CARBONDALE		GRAY SHALE	40.6	27.6	
632.6	CARBONDALE	ST. DAVID	LIMESTONE	0.3	68.2	
632.3	CARBONDALE	TURNER MINE	DARK SHALE	1.5	68.5	
630.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	70.0	
629.8	CARBONDALE	SPRINGFIELD	COAL	3.6	71.0	
626.2	CARBONDALE		UNDERCLAY	1.4	74.6	

MAPID: 05786359000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107802

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.690611

DATE COLLECTED: 1 / 18 / 1983

SURFACE ELEVATION (FT.): 708.7 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29218

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
708.7	PLEISTOCENE		SOIL	1.0	0.0	
707.7	PLEISTOCENE		CLAY & GRAVEL	28.2	1.0	
679.5	CARBONDALE		GRAY SHALE	44.1	29.2	
635.4	CARBONDALE	ST. DAVID	LIMESTONE	0.7	73.3	
634.7	CARBONDALE	TURNER MINE	DARK SHALE	1.0	74.0	
633.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	75.0	
632.9	CARBONDALE	SPRINGFIELD	COAL	3.8	75.8	
629.1	CARBONDALE		UNDERCLAY	0.4	79.6	

MAPID: 0578636000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10936 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688934 DATE COLLECTED: 1 / 19 / 1983

SURFACE ELEVATION (FT.): 694.6 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29219 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
694.6	PLEISTOCENE		SOIL	1.0	0.0
693.6	PLEISTOCENE		CLAY	22.5	1.0
671.1	CARBONDALE		GRAY SHALE	36.8	23.5
634.3	CARBONDALE	ST. DAVID	LIMESTONE	0.2	60.3
634.1	CARBONDALE	TURNER MINE	DARK SHALE	1.3	60.5
632.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	61.8
631.8	CARBONDALE	SPRINGFIELD	COAL	3.6	62.8
628.2	CARBONDALE		UNDERCLAY	1.6	66.4

MAPID: 05786361000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109218 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689685 DATE COLLECTED: 1 / 19 / 1983

SURFACE ELEVATION (FT.): 708.6 LOGGED (FT.): 83.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29220 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
708.6	PLEISTOCENE		SOIL	1.0	0.0
707.6	PLEISTOCENE		CLAY	17.5	1.0
690.1	CARBONDALE		GRAY SHALE	33.5	18.5
656.6	CARBONDALE		LIMESTONE	0.5	52.0
656.1	CARBONDALE		GRAY SHALE	22.5	52.5
633.6	CARBONDALE	ST. DAVID	LIMESTONE	0.3	75.0
633.3	CARBONDALE	TURNER MINE	SHALE	2.5	75.3
630.8	CARBONDALE	SPRINGFIELD	COAL	4.0	77.8
626.8	CARBONDALE		UNDERCLAY	1.2	81.8

MAPID: 05786362000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109011

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.690426

DATE COLLECTED: 1 / 19 / 1983

SURFACE ELEVATION (FT.): 705.3 LOGGED (FT.): 79.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29221

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.3	PLEISTOCENE		SOIL	1.0	0.0	
704.3	PLEISTOCENE		CLAY	21.0	1.0	
683.3	CARBONDALE		SANDSTONE	2.0	22.0	SOFT
681.3	CARBONDALE		GRAY SHALE	46.8	24.0	
634.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	70.8	
634.1	CARBONDALE	TURNER MINE	DARK SHALE	0.8	71.2	
633.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	72.0	
631.7	CARBONDALE	SPRINGFIELD	COAL	4.1	73.6	
627.6	CARBONDALE		UNDERCLAY	1.3	77.7	

MAPID: 05786363000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106291

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689824

DATE COLLECTED: 1 / 19 / 1983

SURFACE ELEVATION (FT.): 698.9 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29222

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.9	PLEISTOCENE		SOIL	1.0	0.0	
697.9	PLEISTOCENE		CLAY	27.3	1.0	
670.6	CARBONDALE		GRAY SHALE	35.3	28.3	
635.3	CARBONDALE	ST. DAVID	LIMESTONE	0.2	63.6	
635.1	CARBONDALE	TURNER MINE	DARK SHALE	1.4	63.8	
633.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	65.2	
632.4	CARBONDALE	SPRINGFIELD	COAL	4.0	66.5	
628.4	CARBONDALE		SHALE/UNDERCLAY	4.5	70.5	

MAPID: 05786364000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106301

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.690577

DATE COLLECTED: 1 / 20 / 1983

SURFACE ELEVATION (FT.): 714.6 LOGGED (FT.): 86.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29223

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
714.6	PLEISTOCENE		SOIL	1.0	0.0
713.6	PLEISTOCENE		CLAY	13.0	1.0
700.6	CARBONDALE		SANDSTONE	3.5	14.0
697.1	CARBONDALE		SHALE	60.2	17.5
636.9	CARBONDALE	ST. DAVID	LIMESTONE	0.4	77.7
636.5	CARBONDALE	TURNER MINE	SHALE	2.1	78.1
634.4	CARBONDALE	SPRINGFIELD	COAL	4.1	80.2
630.3	CARBONDALE		UNDERCLAY	1.7	84.3

MAPID: 05786365000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105436

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689029

DATE COLLECTED: 1 / 20 / 1983

SURFACE ELEVATION (FT.): 676.4 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29224

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
676.4	PLEISTOCENE		SOIL	1.0	0.0
675.4	PLEISTOCENE		CLAY	26.0	1.0
649.4	CARBONDALE		GRAY SHALE	4.0	27.0
645.4	CARBONDALE		GRAY SHALE	10.5	31.0
634.9	CARBONDALE	TURNER MINE	SHALE	2.1	41.5
632.8	CARBONDALE	SPRINGFIELD	COAL	3.6	43.6
629.2	CARBONDALE		SHALE/UNDERCLAY	2.8	47.2

MAPID: 05786366000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105378

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.68984

DATE COLLECTED: 1 / 20 / 1983

SURFACE ELEVATION (FT.): 693.8 LOGGED (FT.): 69.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29225

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
693.8	PLEISTOCENE		SOIL	1.0	0.0
692.8	PLEISTOCENE		CLAY	24.6	1.0
668.2	PLEISTOCENE		GRAVEL	5.2	25.6
663.0	PLEISTOCENE		CLAY & GRAVEL	3.2	30.8
659.8	PLEISTOCENE		CLAY	5.0	34.0
654.8	CARBONDALE		GRAY SHALE	22.4	39.0
632.4	CARBONDALE	ST. DAVID	LIMESTONE	0.3	61.4
632.1	CARBONDALE	TURNER MINE	DARK SHALE	1.6	61.7
630.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	63.3
629.3	CARBONDALE	SPRINGFIELD	COAL	3.6	64.5
625.7	CARBONDALE		UNDERCLAY	0.9	68.1

MAPID: 05786367000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104248

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689161

DATE COLLECTED: 1 / 20 / 1985

SURFACE ELEVATION (FT.): 662.1 LOGGED (FT.): 31.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29226

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
662.1	PLEISTOCENE		SOIL	1.0	0.0
661.1	PLEISTOCENE		CLAY & GRAVEL	22.3	1.0
638.8	CARBONDALE	ST. DAVID	LIMESTONE	0.2	23.3
638.6	CARBONDALE	TURNER MINE	DARK SHALE	1.5	23.5
637.1	CARBONDALE	TURNER MINE	DARK SHALE	1.7	25.0
635.4	CARBONDALE	SPRINGFIELD	COAL	3.7	26.7
631.7	CARBONDALE		UNDERCLAY	0.6	30.4

MAPID: 05786368000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103227 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689225 DATE COLLECTED: 1 / 20 / 1983

SURFACE ELEVATION (FT.): 653.0 LOGGED (FT.): 25.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29227 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
653.0	PLEISTOCENE		SOIL	1.0	0.0
652.0	PLEISTOCENE		CLAY & GRAVEL	13.6	1.0
638.4	CARBONDALE		GRAY SHALE	2.6	14.6
635.8	CARBONDALE	ST. DAVID	LIMESTONE	0.2	17.2
635.6	CARBONDALE	TURNER MINE	DARK SHALE	1.6	17.4
634.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	19.0
632.6	CARBONDALE	SPRINGFIELD	COAL	3.8	20.4
628.8	CARBONDALE		UNDERCLAY	0.8	24.2

MAPID: 05786369000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105396 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.690615 DATE COLLECTED: 1 / 21 / 1983

SURFACE ELEVATION (FT.): 709.2 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29229 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
709.2	PLEISTOCENE		SOIL	1.0	0.0
708.2	PLEISTOCENE		CLAY	23.5	1.0
684.7	CARBONDALE		GRAY SHALE	3.5	24.5
681.2	CARBONDALE		SANDSTONE	5.0	28.0
676.2	CARBONDALE		GRAY SHALE	43.6	33.0
632.6	CARBONDALE	ST. DAVID	LIMESTONE	0.8	76.6
631.8	CARBONDALE	TURNER MINE	DARK SHALE	2.0	77.4
629.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	79.4
629.2	CARBONDALE	SPRINGFIELD	COAL	3.8	80.0
625.4	CARBONDALE		UNDERCLAY	1.2	83.8

MAPID: 05786370000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104329

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689721

DATE COLLECTED: 1 / 21 / 1983

SURFACE ELEVATION (FT.): 684.8 LOGGED (FT.): 57.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29230

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.8	PLEISTOCENE		SOIL	1.0	0.0
683.8	PLEISTOCENE		CLAY & GRAVEL	25.4	1.0
658.4	PLEISTOCENE		CLAY	2.8	26.4
655.6	CARBONDALE		GRAY SHALE	20.0	29.2
635.6	CARBONDALE	ST. DAVID	LIMESTONE	0.5	49.2
635.1	CARBONDALE	TURNER MINE	DARK SHALE	1.6	49.7
633.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	51.3
632.6	CARBONDALE	SPRINGFIELD	COAL	3.8	52.2
628.8	CARBONDALE		UNDERCLAY	1.0	56.0

MAPID: 05786371000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10429

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.690623

DATE COLLECTED: 1 / 24 / 1983

SURFACE ELEVATION (FT.): 702.0 LOGGED (FT.): 76.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29231

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
702.0	PLEISTOCENE		SOIL	1.0	0.0
701.0	PLEISTOCENE		CLAY	25.2	1.0
675.8	CARBONDALE		SANDY SHALE	4.2	26.2
671.6	CARBONDALE		GRAY SHALE	3.6	30.4
668.0	CARBONDALE		LIMESTONE	1.0	34.0
667.0	CARBONDALE		GRAY SHALE	32.2	35.0
634.8	CARBONDALE		LIMESTONE	0.4	67.2
634.4	CARBONDALE		GRAY SHALE	1.6	67.6
632.8	CARBONDALE		LIMESTONE	0.2	69.2
632.6	CARBONDALE	TURNER MINE	DARK SHALE	1.4	69.4
631.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	70.8
630.0	CARBONDALE	SPRINGFIELD	COAL	3.7	72.0
626.3	CARBONDALE		UNDERCLAY	0.3	75.7

MAPID: 05786372000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102917 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689852 DATE COLLECTED: 1 / 24 / 1983

SURFACE ELEVATION (FT.): 670.6 LOGGED (FT.): 41.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29232 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.6	PLEISTOCENE		SOIL	1.0	0.0	
669.6	PLEISTOCENE		CLAY	15.5	1.0	
654.1	PLEISTOCENE		SAND & GRAVEL	4.5	16.5	
649.6	PLEISTOCENE		CLAY	4.0	21.0	
645.6	CARBONDALE		GRAY SHALE	9.2	25.0	
636.4	CARBONDALE	ST. DAVID	LIMESTONE	0.2	34.2	
636.2	CARBONDALE	TURNER MINE	DARK SHALE	1.6	34.4	
634.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	36.0	
633.5	CARBONDALE	SPRINGFIELD	COAL	3.8	37.1	
629.7	CARBONDALE		UNDERCLAY	0.1	40.9	

MAPID: 05786373000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103061 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.690599 DATE COLLECTED: 1 / 21 / 1983

SURFACE ELEVATION (FT.): 679.8 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29233 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.8	PLEISTOCENE		SOIL	1.0	0.0	
678.8	PLEISTOCENE		CLAY	8.5	1.0	
670.3	PLEISTOCENE		GRAVEL	2.2	9.5	
668.1	PLEISTOCENE		CLAY	1.8	11.7	YELLOW
666.3	PLEISTOCENE		CLAY	2.0	13.5	GRAY
664.3	CARBONDALE		SHALE	31.0	15.5	GRAY
633.3	CARBONDALE	TURNER MINE	SHALE	2.5	46.5	
630.8	CARBONDALE	SPRINGFIELD	COAL	3.5	49.0	
627.3	CARBONDALE		UNDERCLAY	2.5	52.5	

MAPID: 05786374000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101922

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.69007

DATE COLLECTED: 1 / 24 / 1983

SURFACE ELEVATION (FT.): 674.8 LOGGED (FT.): 47.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29234

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.8	PLEISTOCENE		SOIL	1.0	0.0	
673.8	PLEISTOCENE		CLAY	15.2	1.0	
658.6	CARBONDALE		SANDSTONE	10.9	16.2	SOFT
647.7	CARBONDALE		GRAY SHALE	12.9	27.1	
634.8	CARBONDALE	ST. DAVID	LIMESTONE	0.2	40.0	
634.6	CARBONDALE	TURNER MINE	DARK SHALE	1.6	40.2	
633.0	CARBONDALE	TURNER MINE	DARK SHALE	1.3	41.8	
631.7	CARBONDALE	SPRINGFIELD	COAL	3.6	43.1	
628.1	CARBONDALE		UNDERCLAY	0.3	46.7	

MAPID: 05786375000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102019

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.690737

DATE COLLECTED: 1 / 25 / 1983

SURFACE ELEVATION (FT.): 690.8 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29238

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.8	PLEISTOCENE		SOIL	1.0	0.0	
689.8	PLEISTOCENE		CLAY	21.0	1.0	
668.8	PLEISTOCENE		CLAY & GRAVEL	13.8	22.0	
655.0	CARBONDALE		GRAY SHALE	22.0	35.8	
633.0	CARBONDALE	ST. DAVID	LIMESTONE	0.2	57.8	
632.8	CARBONDALE	TURNER MINE	SHALE	2.4	58.0	
630.4	CARBONDALE	SPRINGFIELD	COAL	3.8	60.4	
626.6	CARBONDALE		UNDERCLAY	0.8	64.2	

MAPID: 05786387000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687149

DATE COLLECTED: 3 / 19 / 1985

SURFACE ELEVATION (FT.): 661.0 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29335

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 31

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.0	PLEISTOCENE		CLAY	15.0	0.0	YELLOW
646.0	PLEISTOCENE		CLAY	12.0	15.0	GRAY
634.0	CARBONDALE		GRAY SHALE	5.5	27.0	
628.5	CARBONDALE	TURNER MINE	DARK SHALE	1.5	32.5	
627.0	CARBONDALE	SPRINGFIELD	COAL	3.5	34.0	
623.5	CARBONDALE		SHALE/UNDERCLAY	7.5	37.5	

MAPID: 05786388000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119406

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686339

DATE COLLECTED: 3 / 20 / 1995

SURFACE ELEVATION (FT.): 687.2 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29336

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 31

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.2	PLEISTOCENE		CLAY	24.0	0.0	YELLOW
663.2	PLEISTOCENE		CLAY	5.5	24.0	GRAY
657.7	CARBONDALE		GRAY SHALE	22.1	29.5	
635.6	CARBONDALE	ST. DAVID	LIMESTONE	0.3	51.6	
635.3	CARBONDALE	TURNER MINE	DARK SHALE	2.1	51.9	
633.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	54.0	
631.8	CARBONDALE	SPRINGFIELD	COAL	3.8	55.4	
628.0	CARBONDALE		UNDERCLAY	0.8	59.2	

MAPID: 05786389000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119493

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.687216

DATE COLLECTED: 3 / 20 / 1985

SURFACE ELEVATION (FT.): 687.9 LOGGED (FT.): 63.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29337

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG FROM CO MAP 31

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.9	PLEISTOCENE		CLAY	18.0	0.0	YELLOW
669.9	PLEISTOCENE		CLAY	15.4	18.0	GRAY
654.5	CARBONDALE		GRAY SHALE	20.7	33.4	
633.8	CARBONDALE	ST. DAVID	LIMESTONE	0.6	54.1	
633.2	CARBONDALE	TURNER MINE	DARK SHALE	2.2	54.7	
631.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	56.9	
630.0	CARBONDALE	SPRINGFIELD	COAL	3.6	57.9	
626.4	CARBONDALE		UNDERCLAY	1.5	61.5	

MAPID: 05786390000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 12 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119461

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.688099

DATE COLLECTED: 3 / 20 / 1985

SURFACE ELEVATION (FT.): 681.5 LOGGED (FT.): 61.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 29338

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 31

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.5	PLEISTOCENE		CLAY	16.0	0.0	YELLOW
665.5	PLEISTOCENE		CLAY	14.2	16.0	GRAY
651.3	CARBONDALE		GRAY SHALE	21.9	30.2	
629.4	CARBONDALE	ST. DAVID	LIMESTONE	0.3	52.1	
629.1	CARBONDALE	TURNER MINE	DARK SHALE	2.1	52.4	
627.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	54.5	
626.1	CARBONDALE	SPRINGFIELD	COAL	3.8	55.4	
622.3	CARBONDALE		UNDERCLAY	1.8	59.2	

MAPID: 0578400000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.115013

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683523

DATE COLLECTED: 1 / 14 / 1963

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 20.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8119

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0	PLEISTOCENE		CLAY & GRAVEL	7.5	0.0	
632.5	PLEISTOCENE		CLAY	2.4	7.5	COAL TRACE
630.1	PLEISTOCENE		BOULDER	0.6	9.9	
629.5	PLEISTOCENE		CLAY	2.5	10.5	
627.0	CARBONDALE		GRAY SHALE	7.0	13.0	

MAPID: 05784001000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.114798

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683297

DATE COLLECTED: 1 / 14 / 1963

SURFACE ELEVATION (FT.): 641.2 LOGGED (FT.): 20.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8120

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
641.2	PLEISTOCENE		CLAY	6.8	0.0	
634.4	CARBONDALE	SPRINGFIELD	CLAY & COAL	1.8	6.8	TOP ERODED
632.6	CARBONDALE		GRAY SHALE	11.4	8.6	

MAPID: 05784002000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112977

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.681966

DATE COLLECTED: 1 / 14 / 1963

SURFACE ELEVATION (FT.): 647.9 LOGGED (FT.): 15.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8121

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
647.9	PLEISTOCENE		CLAY & GRAVEL	8.9	0.0	
639.0	CARBONDALE	SPRINGFIELD	COAL	1.1	8.9	SOFT BROKEN; TOP ERODED
637.9	CARBONDALE	SPRINGFIELD	COAL	1.2	10.0	SOFT
636.7	CARBONDALE		UNDERCLAY	1.8	11.2	
634.9	CARBONDALE		GRAY SHALE	2.0	13.0	

MAPID: 05784003000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11328 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682202 DATE COLLECTED: 1 / 15 / 1963

SURFACE ELEVATION (FT.): 646.0 LOGGED (FT.): 20.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8123 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.0	PLEISTOCENE		CLAY	7.3	0.0	
638.7	PLEISTOCENE		CLAY	0.8	7.3	& COAL
637.9	PLEISTOCENE		CLAY	2.4	8.1	
635.5	CARBONDALE		LIMESTONE	0.5	10.5	
635.0	CARBONDALE		GRAY SHALE	2.5	11.0	
632.5	CARBONDALE		LIMESTONE	1.8	13.5	SOFT
630.7	CARBONDALE		GRAY SHALE	4.7	15.3	

MAPID: 05784004000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113484 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682253 DATE COLLECTED: 1 / 16 / 1963

SURFACE ELEVATION (FT.): 646.5 LOGGED (FT.): 15.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8126 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.5	PLEISTOCENE		CLAY	7.3	0.0	
639.2	PLEISTOCENE		CLAY	0.5	7.3	& COAL
638.7	PLEISTOCENE		CLAY	3.2	7.8	
635.5	CARBONDALE		GRAY SHALE	4.0	11.0	

MAPID: 05784005000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.114225

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682517

DATE COLLECTED: 1 / 17 / 1963

SURFACE ELEVATION (FT.): 667.5 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8128

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.5	PLEISTOCENE		CLAY	19.4	0.0	
648.1	PLEISTOCENE		BOULDER	0.5	19.4	
647.6	PLEISTOCENE		CLAY & GRAVEL	10.1	19.9	
637.5	PLEISTOCENE		SANDY CLAY	5.9	30.0	
631.6	CARBONDALE		GRAY SHALE	4.1	35.9	

MAPID: 05784006000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.114509

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682651

DATE COLLECTED: 1 / 17 / 1963

SURFACE ELEVATION (FT.): 675.3 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8129

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.3	PLEISTOCENE		CLAY & GRAVEL	24.9	0.0	YELLOW
650.4	PLEISTOCENE		CLAY & GRAVEL	15.0	24.9	GRAY
635.4	PLEISTOCENE		SANDY CLAY	6.5	39.9	
628.9	CARBONDALE		LIMESTONE	0.4	46.4	
628.5	CARBONDALE		GRAY SHALE	3.2	46.8	

MAPID: 05784099000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.114409

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673456

DATE COLLECTED: 11 / 16 / 1964

SURFACE ELEVATION (FT.): 676.9 LOGGED (FT.): 27.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8606

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
676.9	PLEISTOCENE		SOIL	1.0	0.0
675.9	PLEISTOCENE		SANDY CLAY	10.0	1.0
665.9	PLEISTOCENE		CLAY	9.3	11.0
656.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	20.3
654.9	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.8	22.0
651.1	CARBONDALE		UNDERCLAY	1.9	25.8

MAPID: 05784100000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116986

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673476

DATE COLLECTED: 11 / 17 / 1964

SURFACE ELEVATION (FT.): 666.1 LOGGED (FT.): 29.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8609

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
666.1	PLEISTOCENE		SOIL	1.0	0.0
665.1	PLEISTOCENE		CLAY	6.5	1.0
658.6	CARBONDALE		DARK SHALE	12.3	7.5
646.3	CARBONDALE	ST. DAVID	LIMESTONE	0.7	19.8
645.6	CARBONDALE	TURNER MINE	BLACK SHALE	3.2	20.5
642.4	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.9	23.7
638.5	CARBONDALE		UNDERCLAY	1.9	27.6

MAPID: 05784101000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673484

DATE COLLECTED: 11 / 20 / 1964

SURFACE ELEVATION (FT.): 700.7 LOGGED (FT.): 50.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8612

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.7	PLEISTOCENE		SOIL	1.0	0.0	
699.7	PLEISTOCENE		CLAY, SAND & GRAVEL	26.4	1.0	YELLOW
673.3	PLEISTOCENE		CLAY, SAND & GRAVEL	17.4	27.4	
655.9	CARBONDALE	TURNER MINE	BLACK SHALE	0.4	44.8	
655.5	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.8	45.2	
651.7	CARBONDALE		UNDERCLAY	1.9	49.0	

MAPID: 05784102000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112027

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673667

DATE COLLECTED: 11 / 21 / 1964

SURFACE ELEVATION (FT.): 703.9 LOGGED (FT.): 55.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8613

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.9	PLEISTOCENE		SOIL	1.0	0.0	
702.9	PLEISTOCENE		SANDY CLAY	13.3	1.0	YELLOW
689.6	PLEISTOCENE		SANDY CLAY	30.8	14.3	GRAY
658.8	PLEISTOCENE		CLAY	3.9	45.1	
654.9	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	49.0	
654.1	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.9	49.8	
650.2	CARBONDALE		UNDERCLAY	1.9	53.7	

MAPID: 05784103000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.111895

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671471

DATE COLLECTED: 1 / 4 / 1965

SURFACE ELEVATION (FT.): 709.8 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8648

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
709.8	PLEISTOCENE		SOIL	1.0	0.0
708.8	PLEISTOCENE		CLAY	15.5	1.0
693.3	PLEISTOCENE		CLAY, SAND & GRAVEL	58.5	16.5

MAPID: 05784104000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112239

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672275

DATE COLLECTED: 1 / 5 / 1965

SURFACE ELEVATION (FT.): 706.7 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8649

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
706.7	PLEISTOCENE		SOIL	1.0	0.0
705.7	PLEISTOCENE		CLAY	13.0	1.0
692.7	PLEISTOCENE		CLAY, SAND & GRAVEL	61.0	14.0

MAPID: 05784105000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11261

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67282

DATE COLLECTED: 1 / 5 / 1965

SURFACE ELEVATION (FT.): 703.4 LOGGED (FT.): 53.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8650

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
703.4	PLEISTOCENE		SOIL	1.0	0.0
702.4	PLEISTOCENE		CLAY	16.4	1.0 & BOULDERS
686.0	PLEISTOCENE		SANDY CLAY	21.5	17.4
664.5	CARBONDALE		DARK SHALE	6.1	38.9
658.4	CARBONDALE	ST. DAVID	LIMESTONE	1.2	45.0
657.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	46.2
655.5	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.9	47.9
651.6	CARBONDALE		UNDERCLAY	1.9	51.8

MAPID: 05784106000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112259

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672819

DATE COLLECTED: 1 / 15 / 1965

SURFACE ELEVATION (FT.): 712.9 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8652

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.9	PLEISTOCENE		SOIL	1.0	0.0	
711.9	PLEISTOCENE		SANDY CLAY	35.7	1.0	
676.2	PLEISTOCENE		CLAY, SAND & GRAVEL	28.3	36.7	

MAPID: 05784107000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11246

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672594

DATE COLLECTED: 1 / 6 / 1965

SURFACE ELEVATION (FT.): 705.8 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8653

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.8	PLEISTOCENE		SOIL	1.0	0.0	
704.8	PLEISTOCENE		SANDY CLAY	28.8	1.0	YELLOW
676.0	PLEISTOCENE		SANDY CLAY	35.2	29.8	GRAY

MAPID: 05784108000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112074

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673272

DATE COLLECTED: 1 / 18 / 1965

SURFACE ELEVATION (FT.): 686.0 LOGGED (FT.): 34.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8654

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
686.0	PLEISTOCENE		SOIL	1.0	0.0	
685.0	PLEISTOCENE		CLAY	13.3	1.0	
671.7	PLEISTOCENE		SAND	15.6	14.3	
656.1	CARBONDALE	SPRINGFIELD	COAL	2.9	29.9	TOP ERODED
653.2	CARBONDALE		UNDERCLAY	2.1	32.8	

MAPID: 05784109000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11235 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673356 DATE COLLECTED: 1 / 18 / 1965

SURFACE ELEVATION (FT.): 693.1 LOGGED (FT.): 44.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8655 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.1	PLEISTOCENE		SOIL	1.0	0.0	
692.1	PLEISTOCENE		CLAY, SAND & GRAVEL	25.9	1.0	
666.2	PLEISTOCENE		SANDY CLAY	8.1	26.9	
658.1	CARBONDALE	ST. DAVID	LIMESTONE	0.3	35.0	
657.8	CARBONDALE	TURNER MINE	DARK SHALE	1.5	35.3	
656.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	36.8	
654.5	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.9	38.6	
650.6	CARBONDALE		UNDERCLAY	2.1	42.5	

MAPID: 05784110000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116928 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673046 DATE COLLECTED: 2 / 3 / 1965

SURFACE ELEVATION (FT.): 678.1 LOGGED (FT.): 36.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8670 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.1	PLEISTOCENE		SANDY CLAY	12.7	0.0	YELLOW
665.4	PLEISTOCENE		SANDY CLAY	9.6	12.7	GRAY
655.8	CARBONDALE		DARK SHALE	4.7	22.3	
651.1	CARBONDALE	ST. DAVID	LIMESTONE	1.5	27.0	
649.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	28.5	
647.1	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.0	31.0	
643.1	CARBONDALE		UNDERCLAY	1.9	35.0	

MAPID: 05784111000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116602

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672683

DATE COLLECTED: 2 / 4 / 1965

SURFACE ELEVATION (FT.): 700.4 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8671

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.4	PLEISTOCENE		SOIL	1.0	0.0	
699.4	PLEISTOCENE		SANDY CLAY	40.7	1.0	
658.7	PLEISTOCENE		CLAY	5.2	41.7	
653.5	PLEISTOCENE		SAND	28.1	46.9	

MAPID: 05784112000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117859

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672685

DATE COLLECTED: 2 / 4 / 1965

SURFACE ELEVATION (FT.): 703.0 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8672

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.0	PLEISTOCENE		SOIL	1.0	0.0	
702.0	PLEISTOCENE		SANDY CLAY	40.0	1.0	YELLOW
662.0	PLEISTOCENE		SANDY CLAY	19.0	41.0	GRAY
643.0	CARBONDALE	SPRINGFIELD	COAL	2.1	60.0	TOP ERODED
640.9	CARBONDALE		UNDERCLAY	2.9	62.1	

MAPID: 05784113000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118837

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672641

DATE COLLECTED: 1 / 5 / 1965

SURFACE ELEVATION (FT.): 706.5 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8673

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.5	PLEISTOCENE		SOIL	1.0	0.0	
705.5	PLEISTOCENE		SANDY CLAY	30.7	1.0	
674.8	PLEISTOCENE		CLAY, SAND & GRAVEL	43.3	31.7	

MAPID: 05784114000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117993

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673404

DATE COLLECTED: 1 / 5 / 1965

SURFACE ELEVATION (FT.): 662.7 LOGGED (FT.): 20.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8674

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.7	PLEISTOCENE		SILT	3.5	0.0	
659.2	PLEISTOCENE		CLAY, SAND & GRAVEL	8.4	3.5	
650.8	PLEISTOCENE		CLAY	2.8	11.9	
648.0	CARBONDALE	SPRINGFIELD	COAL	4.0	14.7	TOP ERODED
644.0	CARBONDALE		UNDERCLAY	2.1	18.7	

MAPID: 05784115000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119047

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673429

DATE COLLECTED: 1 / 5 / 1965

SURFACE ELEVATION (FT.): 659.9 LOGGED (FT.): 30.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8675

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.9	PLEISTOCENE		SILT	3.5	0.0	
656.4	PLEISTOCENE		SAND & GRAVEL	16.2	3.5	
640.2	CARBONDALE		DARK SHALE	3.8	19.7	
636.4	CARBONDALE		LIMESTONE	4.0	23.5	
632.4	CARBONDALE		GRAY SHALE	2.5	27.5	

MAPID: 05784116000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120544

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675907

DATE COLLECTED: 3 / 19 / 1937

SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 56.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 200

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.0	PLEISTOCENE		CLAY	8.0	0.0	
667.0	PLEISTOCENE		SAND & GRAVEL	10.5	8.0	
656.5	PLEISTOCENE		SAND	0.7	18.5	
655.8	PLEISTOCENE		SANDY CLAY	37.3	19.2	

MAPID: 05784117000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119968

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673891

DATE COLLECTED: 3 / 20 / 1937

SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 50.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 201

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
650.0	PLEISTOCENE		CLAY	10.8	0.0
639.2	PLEISTOCENE		CLAY & GRAVEL	4.5	10.8
634.7	PLEISTOCENE		SAND	0.5	15.3
634.2	PLEISTOCENE		CLAY	0.5	15.8
633.7	PLEISTOCENE		SAND	0.7	16.3
633.1	PLEISTOCENE		CLAY	7.1	16.9
626.0	CARBONDALE		GRAY SHALE	7.5	24.0
618.5	CARBONDALE		LIMESTONE	2.6	31.5
615.9	CARBONDALE		GRAY SHALE	16.6	34.1

MAPID: 05784118000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.155479

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635256

DATE COLLECTED: 3 / 23 / 1937

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 27.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 212

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
665.0	PLEISTOCENE		CLAY	18.9	0.0
646.1	PLEISTOCENE		BOULDER	0.8	18.9
645.3	PLEISTOCENE		CLAY	1.4	19.7
643.9	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	21.1
643.0	CARBONDALE		UNKNOWN	0.5	22.0 VERY HARD COAL BALL
642.5	CARBONDALE	SPRINGFIELD	COAL	3.9	22.5
638.6	CARBONDALE		UNDERCLAY	0.8	26.4

MAPID: 05784119000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120112

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680671

DATE COLLECTED: 3 / 19 / 1937

SURFACE ELEVATION (FT.): 688.0 LOGGED (FT.): 61.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 221

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.0	PLEISTOCENE		CLAY	19.3	0.0	
668.7	PLEISTOCENE		SANDY CLAY	3.3	19.3	YELLOW
665.4	PLEISTOCENE		SANDY CLAY	38.8	22.6	

MAPID: 05784121000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108569

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671502

DATE COLLECTED:

SURFACE ELEVATION (FT.): 710.0 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT3

WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA FORM CO MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
710.0			UNKNOWN	90.0	0.0	NO COAL

MAPID: 05784123000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101471

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672722

DATE COLLECTED:

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 31.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT2

WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA FROM CO MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.0			UNKNOWN	27.3	0.0	
652.7	CARBONDALE	SPRINGFIELD	COAL	4.5	27.3	

MAPID: 05784124000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108569

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671502

DATE COLLECTED:

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 25.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT3

WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNKNOWN	22.8	0.0	
647.2	CARBONDALE	SPRINGFIELD	COAL	2.9	22.8	

MAPID: 05784125000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120213

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673707

DATE COLLECTED:

SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 24.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT9

WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIGITIZED FROM CO MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			UNKNOWN	19.1	0.0	
630.9	CARBONDALE	SPRINGFIELD	COAL	5.2	19.1	& HORSEBACK

MAPID: 05784129000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120323

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675128

DATE COLLECTED:

SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 59.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT18

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			UNKNOWN	59.0	0.0	NO COAL

MAPID: 05784133000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120331 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678755 DATE COLLECTED:

SURFACE ELEVATION (FT.): 693.0 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT27 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.0			UNKNOWN	70.0	0.0	NO COAL

MAPID: 05784145000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101321 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680924 DATE COLLECTED: 6 / 10 / 1975

SURFACE ELEVATION (FT.): 705.8 LOGGED (FT.): 77.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22893 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.8	PLEISTOCENE		CLAY	14.6	0.0	
691.2	CARBONDALE		SHALE & SANDSTONE	27.2	14.6	
664.0	CARBONDALE		LIMESTONE	0.5	41.8	
663.5	CARBONDALE		DARK SHALE	25.7	42.3	
637.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	68.0	
637.4	CARBONDALE	TURNER MINE	DARK SHALE	1.7	68.4	
635.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	70.1	
634.2	CARBONDALE	SPRINGFIELD	COAL	3.6	71.6	
630.6	CARBONDALE		UNDERCLAY	1.8	75.2	

MAPID: 05784146000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101297

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678971

DATE COLLECTED: 6 / 10 / 1975

SURFACE ELEVATION (FT.): 713.6 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22894

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
713.6	PLEISTOCENE		CLAY	21.0	0.0
692.6	CARBONDALE		SHALE & SANDSTONE	30.1	21.0
662.5	CARBONDALE		LIMESTONE	0.5	51.1
662.0	CARBONDALE		DARK SHALE	13.8	51.6
648.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	65.4
647.8	CARBONDALE	TURNER MINE	DARK SHALE	0.8	65.8
647.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	66.6
645.2	CARBONDALE	SPRINGFIELD	COAL	3.7	68.4
641.5	CARBONDALE		UNDERCLAY	2.9	72.1

MAPID: 05784147000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101329

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678077

DATE COLLECTED: 6 / 11 / 1975

SURFACE ELEVATION (FT.): 705.7 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22895

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
705.7	PLEISTOCENE		UNCONSOLIDATED	35.0	0.0
670.7	CARBONDALE		GRAY SHALE	12.0	35.0
658.7	CARBONDALE		DARK SHALE	13.6	47.0
645.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	60.6
644.7	CARBONDALE	TURNER MINE	DARK SHALE	1.9	61.0
642.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	62.9
641.3	CARBONDALE	SPRINGFIELD	COAL	3.6	64.4
637.7	CARBONDALE		UNDERCLAY	2.0	68.0

MAPID: 05784148000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101343

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67768

DATE COLLECTED: 6 / 11 / 1975

SURFACE ELEVATION (FT.): 703.3 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22896

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.3	PLEISTOCENE		CLAY	39.2	0.0	
664.1	CARBONDALE		GRAY SHALE	2.3	39.2	
661.8	CARBONDALE		DARK SHALE	13.5	41.5	
648.3	CARBONDALE	ST. DAVID	LIMESTONE	0.5	55.0	
647.8	CARBONDALE	TURNER MINE	DARK SHALE	1.5	55.5	
646.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	57.0	
644.9	CARBONDALE	SPRINGFIELD	COAL	3.9	58.4	
641.0	CARBONDALE		UNDERCLAY	2.7	62.3	

MAPID: 05784156000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101282

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682334

DATE COLLECTED: 6 / 10 / 1975

SURFACE ELEVATION (FT.): 725.9 LOGGED (FT.): 103.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22940

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.9	PLEISTOCENE		CLAY	10.0	0.0	AND SPOIL
715.9	PLEISTOCENE		BOULDER	1.0	10.0	
714.9	PLEISTOCENE		CLAY	27.5	11.0	& SPOIL
687.4	CARBONDALE		GRAY SHALE	1.5	38.5	
685.9	CARBONDALE		LIMESTONE	4.8	40.0	
681.1	CARBONDALE		GRAY SHALE	7.2	44.8	
673.9	CARBONDALE		GRAY SANDSTONE	15.5	52.0	
658.4	CARBONDALE		DARK SHALE	26.8	67.5	
631.6	CARBONDALE	ST. DAVID	LIMESTONE	0.3	94.3	
631.3	CARBONDALE	TURNER MINE	DARK SHALE	1.2	94.6	
630.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	95.8	
629.1	CARBONDALE	SPRINGFIELD	COAL	3.5	96.8	
625.6	CARBONDALE		UNDERCLAY	2.7	100.3	

MAPID: 0578416000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101351

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674794

DATE COLLECTED: 5 / 19 / 1975

SURFACE ELEVATION (FT.): 725.7 LOGGED (FT.): 92.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23151

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
725.7	PLEISTOCENE		SOIL	1.0	0.0
724.7	PLEISTOCENE		CLAY	30.0	1.0
694.7	PLEISTOCENE		CLAY, SAND & GRAVEL	48.0	31.0
646.7	CARBONDALE		GRAY SHALE	3.4	79.0
643.3	CARBONDALE	ST. DAVID	LIMESTONE	0.5	82.4
642.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	82.9
641.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	84.5
640.5	CARBONDALE	SPRINGFIELD	COAL	4.5	85.2
636.0	CARBONDALE		UNDERCLAY	2.3	89.7

MAPID: 05784161000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101371

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672981

DATE COLLECTED: 5 / 19 / 1975

SURFACE ELEVATION (FT.): 731.2 LOGGED (FT.): 98.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23152

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
731.2	PLEISTOCENE		SOIL	1.0	0.0
730.2	PLEISTOCENE		CLAY	29.0	1.0
701.2	CARBONDALE	HERRIN	COAL	2.7	30.0
698.5	CARBONDALE		UNDERCLAY	1.8	32.7
696.7	CARBONDALE		GRAY SHALE	2.5	34.5
694.2	CARBONDALE		SANDSTONE	9.0	37.0
685.2	CARBONDALE		LIMESTONE	1.8	46.0
683.4	CARBONDALE		GRAY SHALE	13.2	47.8
670.2	CARBONDALE		CALCAREOUS SHALE	15.0	61.0
655.2	CARBONDALE		DARK SHALE	13.0	76.0
642.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	89.0
641.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	89.4
640.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	91.0
639.5	CARBONDALE	SPRINGFIELD	COAL	3.5	91.7
636.0	CARBONDALE		UNDERCLAY	2.8	95.2

BROKEN; TOP
ERODED

MAPID: 05784162000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101407

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671287

DATE COLLECTED: 5 / 20 / 1975

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23153

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.0	PLEISTOCENE		SOIL	1.0	0.0	
731.0	PLEISTOCENE		CLAY	29.0	1.0	
702.0	PLEISTOCENE		CLAY & GRAVEL	34.0	30.0	
668.0	CARBONDALE		SHALE WITH LIMESTONE	27.0	64.0	
641.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	91.0	
640.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.2	91.4	
638.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	93.6	
637.7	CARBONDALE	SPRINGFIELD	COAL	3.7	94.3	
634.0	CARBONDALE		UNDERCLAY	2.0	98.0	

MAPID: 05784200000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110535

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682831

DATE COLLECTED: 6 / 15 / 1962

SURFACE ELEVATION (FT.): 704.5 LOGGED (FT.): 75.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7594

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.5	PLEISTOCENE		SOIL	1.0	0.0	
703.5	PLEISTOCENE		CLAY	9.1	1.0	
694.4	CARBONDALE	HERRIN	COAL	2.3	10.1	BLOSSOM; TOP ERODED
692.1	CARBONDALE		CLAYSTONE	5.4	12.4	YELLOW
686.7	CARBONDALE		BROWN SHALE	6.3	17.8	
680.4	CARBONDALE		GRAY SHALE	25.9	24.1	
654.5	CARBONDALE		DARK SHALE	4.7	50.0	
649.8	CARBONDALE		LIMESTONE	0.2	54.7	
649.6	CARBONDALE		DARK SHALE	12.5	54.9	
637.1	CARBONDALE	ST. DAVID	LIMESTONE	0.5	67.4	
636.6	CARBONDALE	TURNER MINE	DARK SHALE	1.1	67.9	
635.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	69.0	
634.3	CARBONDALE	SPRINGFIELD	COAL	4.0	70.2	
630.3	CARBONDALE		UNDERCLAY	1.0	74.2	

MAPID: 05784201000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109385

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683458

DATE COLLECTED: 6 / 16 / 1962

SURFACE ELEVATION (FT.): 707.8 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7596

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
707.8	PLEISTOCENE		CLAY	12.4	0.0	
695.4	CARBONDALE	HERRIN	COAL	1.0	12.4	BLOSSOM; TOP ERODED
694.4	CARBONDALE		UNDERCLAY	1.6	13.4	
692.8	CARBONDALE		SANDY SHALE	28.4	15.0	
664.4	CARBONDALE		DARK SHALE	28.8	43.4	
635.6	CARBONDALE	ST. DAVID	LIMESTONE	0.4	72.2	
635.2	CARBONDALE	TURNER MINE	DARK SHALE	1.1	72.6	
634.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	73.7	
632.7	CARBONDALE	SPRINGFIELD	COAL	3.9	75.1	
628.8	CARBONDALE		UNDERCLAY	1.0	79.0	

MAPID: 05784202000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110716

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682

DATE COLLECTED: 6 / 18 / 1962

SURFACE ELEVATION (FT.): 711.4 LOGGED (FT.): 84.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7597

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.4	PLEISTOCENE		SOIL	16.8	0.0	
694.6	CARBONDALE	HERRIN	COAL	2.0	16.8	VERY SOFT; TOP ERODED
692.6	CARBONDALE		UNDERCLAY	1.2	18.8	
691.4	CARBONDALE		GRAY SHALE	16.3	20.0	
675.1	CARBONDALE		LIMESTONE	0.4	36.3	
674.7	CARBONDALE		GRAY SHALE	1.0	36.7	
673.7	CARBONDALE		LIMESTONE	0.3	37.7	
673.4	CARBONDALE		CALCAREOUS SHALE	22.5	38.0	
650.9	CARBONDALE		DARK SHALE	15.6	60.5	
635.3	CARBONDALE	ST. DAVID	LIMESTONE	0.6	76.1	
634.7	CARBONDALE	TURNER MINE	DARK SHALE	1.1	76.7	
633.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	77.8	
632.4	CARBONDALE	SPRINGFIELD	COAL	4.0	79.0	
628.4	CARBONDALE		UNDERCLAY	1.0	83.0	

MAPID: 05784203000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108439 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683457 DATE COLLECTED: 6 / 22 / 1962

SURFACE ELEVATION (FT.): 704.5 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7602 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.5	PLEISTOCENE		SOIL	8.1	0.0	
696.4	CARBONDALE	HERRIN	COAL	2.9	8.1	BLOSSOM; TOP ERODED
693.5	CARBONDALE		UNDERCLAY	1.4	11.0	
692.1	CARBONDALE		CALCAREOUS SHALE	37.0	12.4	
655.1	CARBONDALE		DARK SHALE	2.8	49.4	
652.3	CARBONDALE		LIMESTONE	0.3	52.2	
652.0	CARBONDALE		DARK SHALE	14.9	52.5	
637.1	CARBONDALE	ST. DAVID	LIMESTONE	0.7	67.4	
636.4	CARBONDALE	TURNER MINE	DARK SHALE	1.2	68.1	
635.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	69.3	
634.2	CARBONDALE	SPRINGFIELD	COAL	4.0	70.3	
630.2	CARBONDALE		UNDERCLAY	1.7	74.3	

MAPID: 05784204000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108049 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684055 DATE COLLECTED: 6 / 22 / 1962

SURFACE ELEVATION (FT.): 705.7 LOGGED (FT.): 77.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7603 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.7	PLEISTOCENE		CLAY	11.5	0.0	
694.2	CARBONDALE	HERRIN	COAL	1.0	11.5	BLOSSOM; TOP ERODED
693.2	CARBONDALE		CLAYSTONE	7.4	12.5	YELLOW
685.8	CARBONDALE		GRAY SHALE	32.5	19.9	
653.3	CARBONDALE		DARK SHALE	17.3	52.4	
636.0	CARBONDALE	ST. DAVID	LIMESTONE	0.3	69.7	
635.7	CARBONDALE	TURNER MINE	DARK SHALE	1.3	70.0	
634.4	CARBONDALE	TURNER MINE	DARK SHALE	1.2	71.3	
633.2	CARBONDALE	SPRINGFIELD	COAL	4.0	72.5	
629.2	CARBONDALE		UNDERCLAY	1.0	76.5	

MAPID: 05784205000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103798

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677014

DATE COLLECTED: 7 / 14 / 1962

SURFACE ELEVATION (FT.): 721.2 LOGGED (FT.): 83.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7637

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.2	PLEISTOCENE		SOIL	1.0	0.0	
720.2	PLEISTOCENE		CLAY	22.9	1.0	
697.3	PLEISTOCENE		CLAY & GRAVEL	6.8	23.9	
690.5	PLEISTOCENE		BOULDER	0.8	30.7	
689.7	PLEISTOCENE		CLAY & GRAVEL	44.0	31.5	
645.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	75.5	
643.8	CARBONDALE	SPRINGFIELD	COAL	3.8	77.4	
640.0	CARBONDALE		UNDERCLAY	1.8	81.2	

MAPID: 05784206000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105632

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677076

DATE COLLECTED: 7 / 14 / 1962

SURFACE ELEVATION (FT.): 709.6 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7638

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.6	PLEISTOCENE		SOIL	1.0	0.0	
708.6	PLEISTOCENE		CLAY	22.5	1.0	
686.1	PLEISTOCENE		CLAY & GRAVEL	39.7	23.5	
646.4	CARBONDALE	SPRINGFIELD	COAL	3.9	63.2	VERY SOFT;TOP ERODED
642.5	CARBONDALE		UNDERCLAY	2.9	67.1	

MAPID: 05784207000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105521

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678807

DATE COLLECTED: 7 / 16 / 1962

SURFACE ELEVATION (FT.): 708.6 LOGGED (FT.): 69.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7639

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
708.6	PLEISTOCENE		CLAY	21.5	0.0	
687.1	CARBONDALE		SANDY SHALE	12.0	21.5	
675.1	CARBONDALE		GRAY SHALE	16.2	33.5	
658.9	CARBONDALE		LIMESTONE	0.5	49.7	
658.4	CARBONDALE		DARK SHALE	12.0	50.2	
646.4	CARBONDALE	ST. DAVID	LIMESTONE	0.3	62.2	
646.1	CARBONDALE	TURNER MINE	DARK SHALE	1.3	62.5	
644.8	CARBONDALE	TURNER MINE	DARK SHALE	1.1	63.8	
643.7	CARBONDALE	SPRINGFIELD	COAL	3.8	64.9	
639.9	CARBONDALE		UNDERCLAY	1.0	68.7	

MAPID: 05784208000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105658

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677984

DATE COLLECTED: 7 / 16 / 1962

SURFACE ELEVATION (FT.): 719.6 LOGGED (FT.): 76.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7640

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.6	PLEISTOCENE		SOIL	1.0	0.0	
718.6	PLEISTOCENE		CLAY	24.4	1.0	YELLOW
694.2	PLEISTOCENE		CLAY	9.5	25.4	GRAY
684.7	PLEISTOCENE		BOULDER	0.6	34.9	
684.1	PLEISTOCENE		CLAY & GRAVEL	7.3	35.5	
676.8	CARBONDALE		SANDY SHALE	14.2	42.8	
662.6	CARBONDALE		GRAY SHALE	11.2	57.0	
651.4	CARBONDALE	ST. DAVID	LIMESTONE	0.3	68.2	
651.1	CARBONDALE	TURNER MINE	DARK SHALE	1.2	68.5	
649.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	69.7	
648.7	CARBONDALE	SPRINGFIELD	COAL	3.8	70.9	
644.9	CARBONDALE		UNDERCLAY	1.3	74.7	

MAPID: 05784209000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103772 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678597 DATE COLLECTED: 7 / 16 / 1962

SURFACE ELEVATION (FT.): 711.0 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7641 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
711.0	PLEISTOCENE		SOIL	1.0	0.0
710.0	PLEISTOCENE		CLAY	16.2	1.0
693.8	CARBONDALE		SANDY SHALE	12.5	17.2
681.3	CARBONDALE		GRAY SHALE	37.8	29.7
643.5	CARBONDALE	ST. DAVID	LIMESTONE	0.6	67.5
642.9	CARBONDALE	TURNER MINE	DARK SHALE	1.0	68.1
641.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	69.1
640.7	CARBONDALE	SPRINGFIELD	COAL	3.8	70.3
636.9	CARBONDALE		UNDERCLAY	1.9	74.1

MAPID: 05784210000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104851 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678526 DATE COLLECTED: 7 / 17 / 1962

SURFACE ELEVATION (FT.): 708.6 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7642 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
708.6	PLEISTOCENE		CLAY	13.6	0.0
695.0	PLEISTOCENE		CLAY & GRAVEL	28.0	13.6
667.0	CARBONDALE		GRAY SHALE	21.9	41.6
645.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	63.5
644.7	CARBONDALE	TURNER MINE	DARK SHALE	1.7	63.9
643.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	65.6
641.8	CARBONDALE	SPRINGFIELD	COAL	3.8	66.8
638.0	CARBONDALE		UNDERCLAY	1.4	70.6

MAPID: 05784211000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104939

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67775

DATE COLLECTED: 7 / 17 / 1962

SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7643

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.0	PLEISTOCENE		SOIL	1.0	0.0	
721.0	PLEISTOCENE		CLAY	23.4	1.0	
697.6	PLEISTOCENE		CLAY & GRAVEL	34.8	24.4	
662.8	CARBONDALE		GRAY SHALE	11.8	59.2	
651.0	CARBONDALE	ST. DAVID	LIMESTONE	0.3	71.0	
650.7	CARBONDALE	TURNER MINE	DARK SHALE	1.5	71.3	
649.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	72.8	
647.7	CARBONDALE	SPRINGFIELD	COAL	3.9	74.3	
643.8	CARBONDALE		UNDERCLAY	1.8	78.2	

MAPID: 05784212000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105832

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.681227

DATE COLLECTED: 7 / 18 / 1962

SURFACE ELEVATION (FT.): 721.3 LOGGED (FT.): 97.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7644

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.3	PLEISTOCENE		CLAY	25.1	0.0	
696.2	PLEISTOCENE		BOULDER	0.4	25.1	
695.8	CARBONDALE	HERRIN	COAL	2.9	25.5	SOFT BROKEN; TOP ERODED
692.9	CARBONDALE		UNDERCLAY	1.6	28.4	
691.3	CARBONDALE		GRAY SHALE	54.7	30.0	
636.6	CARBONDALE	ST. DAVID	LIMESTONE	0.3	84.7	
636.3	CARBONDALE	TURNER MINE	DARK SHALE	1.3	85.0	
635.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	86.3	
633.5	CARBONDALE	SPRINGFIELD	COAL	3.9	87.8	
629.6	CARBONDALE		UNDERCLAY	2.3	91.7	
627.3	CARBONDALE		GRAY SHALE	3.4	94.0	

MAPID: 05784213000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106203

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680199

DATE COLLECTED: 7 / 19 / 1962

SURFACE ELEVATION (FT.): 703.0 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7645

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.0	PLEISTOCENE		CLAY	12.8	0.0	
690.2	CARBONDALE		SHALE	17.0	12.8	SOFT BROKEN; TOP ERODED
673.2	CARBONDALE		GRAY SHALE	31.9	29.8	
641.3	CARBONDALE	ST. DAVID	LIMESTONE	1.3	61.7	
640.0	CARBONDALE	TURNER MINE	DARK SHALE	1.2	63.0	
638.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	64.2	
637.8	CARBONDALE	SPRINGFIELD	COAL	3.8	65.2	
634.0	CARBONDALE		UNDERCLAY	1.0	69.0	

MAPID: 05784214000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106376

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.679613

DATE COLLECTED: 7 / 19 / 1962

SURFACE ELEVATION (FT.): 665.4 LOGGED (FT.): 32.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7646

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.4	PLEISTOCENE		CLAY	6.9	0.0	
658.5	CARBONDALE		GRAY SHALE	1.5	6.9	SOFT
657.0	CARBONDALE		LIMESTONE	1.8	8.4	
655.2	CARBONDALE		GRAY SHALE	13.6	10.2	
641.6	CARBONDALE	TURNER MINE	DARK SHALE	1.3	23.8	
640.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	25.1	
639.1	CARBONDALE	SPRINGFIELD	COAL	3.8	26.3	
635.3	CARBONDALE		UNDERCLAY	1.9	30.1	

MAPID: 05784215000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107726

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.679849

DATE COLLECTED: 7 / 19 / 1962

SURFACE ELEVATION (FT.): 659.7 LOGGED (FT.): 27.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7647

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
659.7	PLEISTOCENE		CLAY	6.1	0.0
653.6	CARBONDALE		GRAY SHALE	11.6	6.1
642.0	CARBONDALE	ST. DAVID	LIMESTONE	0.6	17.7
641.4	CARBONDALE	TURNER MINE	DARK SHALE	1.5	18.3
639.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	19.8
638.6	CARBONDALE	SPRINGFIELD	COAL	3.8	21.1
634.8	CARBONDALE		UNDERCLAY	2.1	24.9

MAPID: 05784216000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106436

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.679009

DATE COLLECTED: 7 / 19 / 1962

SURFACE ELEVATION (FT.): 668.7 LOGGED (FT.): 32.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7648

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
668.7	PLEISTOCENE		SOIL	1.0	0.0
667.7	PLEISTOCENE		CLAY	4.9	1.0
662.8	CARBONDALE		SANDY SHALE	3.6	5.9
659.2	CARBONDALE		GRAY SHALE	14.0	9.5
645.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	23.5
644.8	CARBONDALE	TURNER MINE	DARK SHALE	1.3	23.9
643.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	25.2
641.9	CARBONDALE	SPRINGFIELD	COAL	3.9	26.8
638.0	CARBONDALE		UNDERCLAY	1.3	30.7

MAPID: 05784217000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106692

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678144

DATE COLLECTED: 7 / 19 / 1962

SURFACE ELEVATION (FT.): 675.7 LOGGED (FT.): 34.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7649

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.7	PLEISTOCENE		CLAY	4.2	0.0	
671.5	CARBONDALE		SHALE	5.4	4.2	SOFT BROKEN
666.1	CARBONDALE		GRAY SHALE	16.3	9.6	
649.8	CARBONDALE	ST. DAVID	LIMESTONE	0.3	25.9	
649.5	CARBONDALE	TURNER MINE	DARK SHALE	1.3	26.2	
648.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	27.5	
646.7	CARBONDALE	SPRINGFIELD	COAL	3.8	29.0	& HORSE BACK
642.9	CARBONDALE		UNDERCLAY	1.2	32.8	

MAPID: 05784218000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104755

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677009

DATE COLLECTED: 7 / 20 / 1962

SURFACE ELEVATION (FT.): 717.8 LOGGED (FT.): 89.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7650

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.8	PLEISTOCENE		SOIL	1.0	0.0	
716.8	PLEISTOCENE		CLAY & GRAVEL	21.4	1.0	
695.4	PLEISTOCENE		BOULDER	1.5	22.4	
693.9	PLEISTOCENE		CLAY & GRAVEL	52.7	23.9	
641.2	PLEISTOCENE		BOULDER	0.6	76.6	
640.6	PLEISTOCENE		CLAY & GRAVEL	9.8	77.2	
630.8	CARBONDALE		GRAY SHALE	0.8	87.0	
630.0	CARBONDALE		LIMESTONE	0.3	87.8	
629.7	CARBONDALE		GRAY SHALE	1.3	88.1	

MAPID: 05784219000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102461

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677001

DATE COLLECTED: 7 / 20 / 1962

SURFACE ELEVATION (FT.): 717.9 LOGGED (FT.): 89.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7651

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
717.9	PLEISTOCENE		SOIL	1.0	0.0
716.9	PLEISTOCENE		CLAY	16.6	1.0
700.3	PLEISTOCENE		CLAY & GRAVEL	5.2	17.6
695.1	PLEISTOCENE		BOULDER	0.7	22.8
694.4	PLEISTOCENE		CLAY & GRAVEL	28.1	23.5
666.3	PLEISTOCENE		SANDY CLAY	30.4	51.6
635.9	CARBONDALE		LIMESTONE	2.0	82.0
633.9	CARBONDALE		GRAY SHALE	5.6	84.0

MAPID: 05784220000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10375

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677778

DATE COLLECTED: 7 / 20 / 1962

SURFACE ELEVATION (FT.): 716.1 LOGGED (FT.): 79.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7652

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
716.1	PLEISTOCENE		SOIL	1.0	0.0
715.1	PLEISTOCENE		CLAY	14.5	1.0
700.6	PLEISTOCENE		SAND & GRAVEL	5.8	15.5
694.8	PLEISTOCENE		BOULDER	0.5	21.3
694.3	PLEISTOCENE		CLAY & GRAVEL	20.7	21.8
673.6	CARBONDALE		GRAY SHALE	2.6	42.5 SOFT
671.0	CARBONDALE		GRAY SHALE	21.8	45.1
649.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	66.9
648.8	CARBONDALE	TURNER MINE	DARK SHALE	1.0	67.3
647.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	68.3
646.3	CARBONDALE	SPRINGFIELD	COAL	3.8	69.8
642.5	CARBONDALE		UNDERCLAY	1.4	73.6
641.1	CARBONDALE		GRAY SHALE	4.0	75.0

MAPID: 05784221000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102408

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677964

DATE COLLECTED: 7 / 21 / 1962

SURFACE ELEVATION (FT.): 714.8 LOGGED (FT.): 79.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7653

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.8	PLEISTOCENE		SOIL	1.0	0.0	
713.8	PLEISTOCENE		CLAY	21.1	1.0	YELLOW
692.7	PLEISTOCENE		CLAY	4.4	22.1	GRAY
688.3	CARBONDALE		SANDY SHALE	4.3	26.5	
684.0	CARBONDALE		GRAY SHALE	39.3	30.8	
644.7	CARBONDALE	ST. DAVID	LIMESTONE	0.7	70.1	
644.0	CARBONDALE	TURNER MINE	DARK SHALE	1.0	70.8	
643.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	71.8	
641.2	CARBONDALE	SPRINGFIELD	COAL	3.9	73.6	
637.3	CARBONDALE		UNDERCLAY	1.9	77.5	

MAPID: 05784222000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101521

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677304

DATE COLLECTED: 7 / 21 / 1962

SURFACE ELEVATION (FT.): 700.5 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7654

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.5	PLEISTOCENE		CLAY	4.4	0.0	
696.1	PLEISTOCENE		BOULDER	0.8	4.4	
695.3	PLEISTOCENE		CLAY & GRAVEL	15.2	5.2	YELLOW
680.1	PLEISTOCENE		CLAY & GRAVEL	4.6	20.4	GRAY
675.5	PLEISTOCENE		BOULDER	0.6	25.0	
674.9	PLEISTOCENE		CLAY & GRAVEL	33.0	25.6	
641.9	PLEISTOCENE		BOULDER	0.4	58.6	
641.5	PLEISTOCENE		CLAY	1.1	59.0	
640.4	CARBONDALE		GRAY SHALE	3.7	60.1	
636.7	CARBONDALE		LIMESTONE	1.6	63.8	
635.1	CARBONDALE		GRAY SHALE	4.6	65.4	

MAPID: 05784223000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.111168

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67366

DATE COLLECTED: 12 / 16 / 1964

SURFACE ELEVATION (FT.): 704.6 LOGGED (FT.): 35.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8643

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.6	PLEISTOCENE		SOIL	1.0	0.0	
703.6	PLEISTOCENE		CLAY	18.9	1.0	
684.7	PLEISTOCENE		SANDY CLAY	15.1	19.9	LOST WATER

MAPID: 05784224000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110925

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670704

DATE COLLECTED: 12 / 29 / 1964

SURFACE ELEVATION (FT.): 719.5 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8644

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.5	PLEISTOCENE		SOIL	1.0	0.0	
718.5	PLEISTOCENE		CLAY	20.0	1.0	
698.5	PLEISTOCENE		CLAY, SAND & GRAVEL	54.0	21.0	

MAPID: 05784225000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106035

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675118

DATE COLLECTED: 1 / 4 / 1965

SURFACE ELEVATION (FT.): 715.1 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.1	PLEISTOCENE		SOIL	1.0	0.0	
714.1	PLEISTOCENE		SANDY CLAY	16.7	1.0	
697.4	PLEISTOCENE		CLAY, SAND & GRAVEL	57.3	17.7	

MAPID: 05784226000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.111913

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671466

DATE COLLECTED: 1 / 4 / 1965

SURFACE ELEVATION (FT.): 709.8 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8648

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.8	PLEISTOCENE		SOIL	1.0	0.0	
708.8	PLEISTOCENE		CLAY	15.5	1.0	
693.3	PLEISTOCENE		CLAY, SAND & GRAVEL	58.5	16.5	

MAPID: 05784227000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.111738

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673003

DATE COLLECTED: 1 / 14 / 1965

SURFACE ELEVATION (FT.): 714.1 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8651

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.1	PLEISTOCENE		SOIL	1.0	0.0	
713.1	PLEISTOCENE		SANDY CLAY	28.7	1.0	YELLOW
684.4	PLEISTOCENE		SANDY CLAY	37.2	29.7	GRAY
647.2	PLEISTOCENE		CLAY	8.1	66.9	

MAPID: 05784228000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.111926

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673311

DATE COLLECTED: 1 / 19 / 1965

SURFACE ELEVATION (FT.): 686.0 LOGGED (FT.): 36.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8658

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
686.0	PLEISTOCENE		SOIL	1.0	0.0	
685.0	PLEISTOCENE		SANDY CLAY	7.0	1.0	
678.0	PLEISTOCENE		SAND	26.0	8.0	
652.0	CARBONDALE	SPRINGFIELD	COAL	0.8	34.0	SOFT TOP ERODED
651.2	CARBONDALE		UNDERCLAY	2.1	34.8	

MAPID: 05784229000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103073

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676968

DATE COLLECTED: 3 / 27 / 1965

SURFACE ELEVATION (FT.): 724.8 LOGGED (FT.): 91.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8676

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.8	PLEISTOCENE		SOIL	1.0	0.0	
723.8	PLEISTOCENE		CLAY	16.8	1.0	
707.0	PLEISTOCENE		GRAVEL	4.5	17.8	
702.5	PLEISTOCENE		SANDY CLAY	33.4	22.3	GRAY
669.1	PLEISTOCENE		SANDY CLAY	21.4	55.7	BROWN
647.7	PLEISTOCENE		CLAY	5.5	77.1	
642.2	CARBONDALE		DARK SHALE	1.9	82.6	
640.3	CARBONDALE		LIMESTONE	2.1	84.5	
638.2	CARBONDALE		DARK SHALE	1.6	86.6	
636.6	CARBONDALE		GRAY SHALE	3.1	88.2	

MAPID: 05784230000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10345

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676971

DATE COLLECTED: 3 / 29 / 1965

SURFACE ELEVATION (FT.): 724.5 LOGGED (FT.): 81.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8677

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.5	PLEISTOCENE		SOIL	1.0	0.0	
723.5	PLEISTOCENE		CLAY, SAND & GRAVEL	25.1	1.0	BROWN
698.4	PLEISTOCENE		CLAY, SAND & GRAVEL	26.5	26.1	GRAY
671.9	PLEISTOCENE		CLAY	7.1	52.6	
664.8	CARBONDALE		BROWN SHALE	11.2	59.7	
653.6	CARBONDALE		DARK SHALE	1.9	70.9	
651.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.4	72.8	
649.3	CARBONDALE	SPRINGFIELD	COAL	4.5	75.2	
644.8	CARBONDALE		GRAY SHALE	1.8	79.7	

MAPID: 05784231000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103253

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677207

DATE COLLECTED: 3 / 29 / 1965

SURFACE ELEVATION (FT.): 724.6 LOGGED (FT.): 81.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8678

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.6	PLEISTOCENE		SOIL	1.0	0.0	
723.6	PLEISTOCENE		CLAY, SAND & GRAVEL	27.4	1.0	BROWN
696.2	PLEISTOCENE		CLAY, SAND & GRAVEL	21.2	28.4	GRAY
675.0	PLEISTOCENE		CLAY, SAND & GRAVEL	8.3	49.6	BROWN
666.7	CARBONDALE		GRAY SHALE	2.5	57.9	
664.2	CARBONDALE		DARK SHALE	13.3	60.4	
650.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	73.7	
649.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	75.0	
648.5	CARBONDALE	SPRINGFIELD	COAL	3.7	76.1	HARD
644.8	CARBONDALE	SPRINGFIELD	COAL	0.5	79.8	SOFT
644.3	CARBONDALE		GRAY SHALE	1.0	80.3	

MAPID: 05784232000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102897

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677192

DATE COLLECTED: 3 / 30 / 1965

SURFACE ELEVATION (FT.): 724.2 LOGGED (FT.): 81.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8679

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.2	PLEISTOCENE		SOIL	1.0	0.0	
723.2	PLEISTOCENE		CLAY, SAND & GRAVEL	31.2	1.0	BROWN
692.0	PLEISTOCENE		CLAY	17.9	32.2	
674.1	PLEISTOCENE		SANDY CLAY	5.3	50.1	
668.8	CARBONDALE		BROWN SHALE	2.4	55.4	
666.4	CARBONDALE		GRAY SHALE	1.9	57.8	
664.5	CARBONDALE		DARK SHALE	14.0	59.7	
650.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.4	73.7	
648.1	CARBONDALE	SPRINGFIELD	COAL	4.1	76.1	HARD
644.0	CARBONDALE		GRAY SHALE	1.2	80.2	

MAPID: 05784233000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102721

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676939

DATE COLLECTED: 3 / 30 / 1965

SURFACE ELEVATION (FT.): 723.3 LOGGED (FT.): 81.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8680

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.3	PLEISTOCENE		SOIL	1.0	0.0	
722.3	PLEISTOCENE		CLAY, SAND & GRAVEL	20.2	1.0	
702.1	PLEISTOCENE		CLAY & GRAVEL	29.5	21.2	
672.6	PLEISTOCENE		CLAY	14.6	50.7	
658.0	PLEISTOCENE		GRAVEL	2.3	65.3	
655.7	PLEISTOCENE		CLAY	3.3	67.6	BROWN
652.4	PLEISTOCENE		CLAY	3.3	70.9	GRAY
649.1	CARBONDALE	SPRINGFIELD	COAL	3.4	74.2	SOFT; TOP ERODED
645.7	CARBONDALE	SPRINGFIELD	COAL	1.0	77.6	
644.7	CARBONDALE		SHALE	2.7	78.6	

MAPID: 05784234000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102531

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677175

DATE COLLECTED: 3 / 30 / 1965

SURFACE ELEVATION (FT.): 722.9 LOGGED (FT.): 81.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8681

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.9	PLEISTOCENE		SOIL	1.0	0.0	
721.9	PLEISTOCENE		SANDY CLAY	23.6	1.0	
698.3	PLEISTOCENE		CLAY	21.7	24.6	GRAY
676.6	PLEISTOCENE		CLAY	9.6	46.3	BROWN
667.0	CARBONDALE		BROWN SHALE	7.2	55.9	
659.8	CARBONDALE		DARK SHALE	9.0	63.1	
650.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	72.1	
649.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	73.5	
648.0	CARBONDALE	SPRINGFIELD	COAL	4.2	74.9	HARD
643.8	CARBONDALE		GRAY SHALE	2.5	79.1	

MAPID: 05784236000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102362

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676935

DATE COLLECTED: 3 / 31 / 1965

SURFACE ELEVATION (FT.): 718.0 LOGGED (FT.): 90.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8682

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.0	PLEISTOCENE		SOIL	1.0	0.0	
717.0	PLEISTOCENE		SANDY CLAY	15.8	1.0	BROWN
701.2	PLEISTOCENE		SANDY CLAY	36.5	16.8	GRAY
664.7	PLEISTOCENE		CLAY	19.6	53.3	BROWN
645.1	PLEISTOCENE		CLAY	6.4	72.9	GRAY
638.7	CARBONDALE		LIMESTONE	2.2	79.3	
636.5	CARBONDALE		GRAY SHALE	9.1	81.5	

MAPID: 05784237000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102176

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677163

DATE COLLECTED: 3 / 31 / 1965

SURFACE ELEVATION (FT.): 720.6 LOGGED (FT.): 81.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8683

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.6	PLEISTOCENE		SOIL	1.0	0.0	
719.6	PLEISTOCENE		CLAY & GRAVEL	18.8	1.0	
700.8	PLEISTOCENE		CLAY, SAND & GRAVEL	26.9	19.8	
673.9	PLEISTOCENE		CLAY	21.4	46.7	
652.5	CARBONDALE		BROWN SHALE	2.7	68.1	
649.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	70.8	
648.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	72.3	
647.7	CARBONDALE	SPRINGFIELD	COAL	4.1	72.9	HARD
643.6	CARBONDALE		GRAY SHALE	4.5	77.0	

MAPID: 05784238000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101871

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677092

DATE COLLECTED: 4 / 2 / 1965

SURFACE ELEVATION (FT.): 711.0 LOGGED (FT.): 81.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8684

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.0	PLEISTOCENE		CLAY	5.0	0.0	
706.0	PLEISTOCENE		SAND & GRAVEL	7.6	5.0	
698.4	PLEISTOCENE		CLAY & GRAVEL	33.2	12.6	GRAY
665.2	PLEISTOCENE		CLAY	17.7	45.8	BROWN
647.5	CARBONDALE		CLAY	9.4	63.5	GRAY
638.1	CARBONDALE		LIMESTONE	1.2	72.9	
636.9	CARBONDALE		GRAY SHALE	7.3	74.1	

MAPID: 05784239000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101866

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677313

DATE COLLECTED: 4 / 2 / 1965

SURFACE ELEVATION (FT.): 715.7 LOGGED (FT.): 75.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8685

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.7	PLEISTOCENE		SOIL	1.0	0.0	
714.7	PLEISTOCENE		CLAY	18.8	1.0	BROWN
695.9	PLEISTOCENE		CLAY	18.9	19.8	GRAY
677.0	PLEISTOCENE		CLAY	24.5	38.7	BROWN
652.5	PLEISTOCENE		CLAY	3.7	63.2	GRAY
648.8	CARBONDALE	TURNER MINE	SHALE	1.1	66.9	
647.7	CARBONDALE	SPRINGFIELD	COAL	4.2	68.0	
643.5	CARBONDALE		GRAY SHALE	2.9	72.2	

MAPID: 0578424000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102125

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677513

DATE COLLECTED: 4 / 3 / 1965

SURFACE ELEVATION (FT.): 720.5 LOGGED (FT.): 81.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8686

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.5	PLEISTOCENE		SOIL	1.0	0.0	
719.5	PLEISTOCENE		CLAY	21.1	1.0	
698.4	CARBONDALE		SANDY CLAY	19.8	22.1	
678.6	CARBONDALE		BROWN SHALE	8.8	41.9	
669.8	CARBONDALE		GRAY SHALE	7.5	50.7	
662.3	CARBONDALE		DARK SHALE	13.1	58.2	
649.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	71.3	
648.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	72.4	
646.5	CARBONDALE	SPRINGFIELD	COAL	3.9	74.0	HARD
642.6	CARBONDALE		GRAY SHALE	3.7	77.9	

MAPID: 05784241000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10701

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675494

DATE COLLECTED: 4 / 20 / 1956

SURFACE ELEVATION (FT.): 713.8 LOGGED (FT.): 71.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8696

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.8	PLEISTOCENE		SOIL	1.0	0.0	
712.8	PLEISTOCENE		CLAY	21.7	1.0	
691.1	PLEISTOCENE		SANDY CLAY	40.5	22.7	
650.6	PLEISTOCENE		CLAY	8.0	63.2	

MAPID: 05784242000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106324

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676204

DATE COLLECTED: 4 / 21 / 1965

SURFACE ELEVATION (FT.): 716.6 LOGGED (FT.): 81.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8700

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.6	PLEISTOCENE		SOIL	1.0	0.0	
715.6	PLEISTOCENE		CLAY	18.7	1.0	BROWN
696.9	PLEISTOCENE		CLAY	50.9	19.7	GRAY
646.0	PLEISTOCENE		CLAY	4.3	70.6	BROWN
641.7	CARBONDALE		DARK SHALE	1.4	74.9	
640.3	CARBONDALE		LIMESTONE	1.8	76.3	
638.5	CARBONDALE		GRAY SHALE	2.9	78.1	

MAPID: 05784243000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106551

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676109

DATE COLLECTED: 4 / 22 / 1965

SURFACE ELEVATION (FT.): 709.7 LOGGED (FT.): 66.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8701

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.7	PLEISTOCENE		SOIL	1.0	0.0	
708.7	PLEISTOCENE		CLAY	17.2	1.0	BROWN
691.5	PLEISTOCENE		CLAY	40.1	18.2	GRAY
651.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	58.3	
650.6	CARBONDALE	SPRINGFIELD	COAL	4.1	59.1	
646.5	CARBONDALE		GRAY SHALE	2.8	63.2	

MAPID: 05784244000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10665 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675777 DATE COLLECTED: 4 / 22 / 1965

SURFACE ELEVATION (FT.): 710.2 LOGGED (FT.): 71.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8702 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
710.2	PLEISTOCENE		SOIL	1.0	0.0	
709.2	PLEISTOCENE		CLAY	19.9	1.0	BROWN
689.3	PLEISTOCENE		CLAY	50.3	20.9	GRAY

MAPID: 05784245000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107623 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675209 DATE COLLECTED: 4 / 23 / 1965

SURFACE ELEVATION (FT.): 721.3 LOGGED (FT.): 81.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8706 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.3	PLEISTOCENE		SOIL	1.0	0.0	
720.3	PLEISTOCENE		CLAY	22.6	1.0	
697.7	PLEISTOCENE		SANDY CLAY	28.1	23.6	
669.6	PLEISTOCENE		SAND & GRAVEL	3.7	51.7	
665.9	PLEISTOCENE		SANDY CLAY	26.1	55.4	

MAPID: 05784246000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107342 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675379 DATE COLLECTED: 4 / 27 / 1965

SURFACE ELEVATION (FT.): 718.9 LOGGED (FT.): 81.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8708 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.9	PLEISTOCENE		SOIL	1.0	0.0	
717.9	PLEISTOCENE		CLAY	14.4	1.0	
703.5	PLEISTOCENE		GRAVEL	5.3	15.4	
698.2	PLEISTOCENE		CLAY & GRAVEL	60.8	20.7	

MAPID: 05784247000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110334

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67359

DATE COLLECTED: 4 / 30 / 1965

SURFACE ELEVATION (FT.): 708.6 LOGGED (FT.): 71.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8711

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
708.6	PLEISTOCENE		SOIL	1.0	0.0	
707.6	PLEISTOCENE		CLAY	21.3	1.0	
686.3	PLEISTOCENE		SANDY CLAY	48.7	22.3	

MAPID: 05784248000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110045

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673738

DATE COLLECTED: 4 / 30 / 1965

SURFACE ELEVATION (FT.): 715.5 LOGGED (FT.): 81.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8712

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.5	PLEISTOCENE		SOIL	1.0	0.0	
714.5	PLEISTOCENE		CLAY	20.9	1.0	
693.6	PLEISTOCENE		SANDY CLAY	59.3	21.9	

MAPID: 05784249000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109754

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673965

DATE COLLECTED: 5 / 3 / 1965

SURFACE ELEVATION (FT.): 718.8 LOGGED (FT.): 81.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8717

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.8	PLEISTOCENE		SOIL	1.0	0.0	
717.8	PLEISTOCENE		CLAY	18.7	1.0	BROWN
699.1	PLEISTOCENE		CLAY	61.6	19.7	GRAY

MAPID: 0578425000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109392 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674022 DATE COLLECTED: 5 / 3 / 1965

SURFACE ELEVATION (FT.): 720.1 LOGGED (FT.): 81.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8718 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.1	PLEISTOCENE		SOIL	1.0	0.0	
719.1	PLEISTOCENE		CLAY	22.4	1.0	
696.7	PLEISTOCENE		SANDY CLAY	58.0	23.4	

MAPID: 05784251000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109155 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674239 DATE COLLECTED: 5 / 3 / 1965

SURFACE ELEVATION (FT.): 721.1 LOGGED (FT.): 81.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8719 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.1	PLEISTOCENE		SOIL	1.0	0.0	
720.1	PLEISTOCENE		CLAY	22.8	1.0	BROWN
697.3	PLEISTOCENE		CLAY	51.8	23.8	GRAY
645.5	PLEISTOCENE		CLAY	5.9	75.6	BROWN

MAPID: 05784252000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108434 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674706 DATE COLLECTED: 5 / 7 / 1965

SURFACE ELEVATION (FT.): 721.6 LOGGED (FT.): 81.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8728 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.6	PLEISTOCENE		SOIL	1.0	0.0	
720.6	PLEISTOCENE		CLAY	18.5	1.0	
702.1	PLEISTOCENE		SAND	3.2	19.5	
698.9	PLEISTOCENE		CLAY	55.2	22.7	
643.7	CARBONDALE		DARK SHALE	1.2	77.9	
642.5	CARBONDALE		DARK SHALE	2.4	79.1	

MAPID: 05784253000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108219

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674906

DATE COLLECTED: 5 / 7 / 1965

SURFACE ELEVATION (FT.): 721.8 LOGGED (FT.): 81.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8729

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.8	PLEISTOCENE		SOIL	1.0	0.0	
720.8	PLEISTOCENE		CLAY	21.4	1.0	BROWN
699.4	PLEISTOCENE		CLAY	59.3	22.4	GRAY

MAPID: 05784254000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107963

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675086

DATE COLLECTED: 5 / 7 / 1965

SURFACE ELEVATION (FT.): 722.5 LOGGED (FT.): 81.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8730

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.5	PLEISTOCENE		SOIL	1.0	0.0	
721.5	PLEISTOCENE		CLAY	22.3	1.0	BROWN
699.2	PLEISTOCENE		CLAY	58.3	23.3	GRAY

MAPID: 05784255000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101386

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675944

DATE COLLECTED: 5 / 8 / 1965

SURFACE ELEVATION (FT.): 722.3 LOGGED (FT.): 101.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8731

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.3	PLEISTOCENE		SOIL	1.0	0.0	
721.3	PLEISTOCENE		CLAY	16.2	1.0	BROWN
705.1	PLEISTOCENE		CLAY	43.1	17.2	GRAY
662.0	PLEISTOCENE		CLAY	8.9	60.3	BROWN
653.1	PLEISTOCENE		CLAY	13.4	69.2	GRAY
639.7	PLEISTOCENE		CLAY	12.8	82.6	
626.9	PLEISTOCENE		WOOD	6.2	95.4	

MAPID: 05784256000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112764

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673017

DATE COLLECTED: 1 / 20 / 1965

SURFACE ELEVATION (FT.): 702.4 LOGGED (FT.): 56.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8659

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.4	PLEISTOCENE		SOIL	1.0	0.0	
701.4	PLEISTOCENE		CLAY	33.3	1.0	
668.1	CARBONDALE		DARK SHALE	9.3	34.3	
658.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	43.6	
658.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.1	44.1	
656.2	CARBONDALE	SPRINGFIELD	COAL	3.9	46.2	AND HORSEBACK
652.3	CARBONDALE		UNDERCLAY	1.8	50.1	
650.5	CARBONDALE		GRAY SHALE	4.1	51.9	

MAPID: 05784257000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.115649

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671463

DATE COLLECTED: 1 / 21 / 1965

SURFACE ELEVATION (FT.): 704.4 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8660

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.4	PLEISTOCENE		SOIL	1.0	0.0	
703.4	PLEISTOCENE		SANDY CLAY	10.7	1.0	
692.7	PLEISTOCENE		CLAY & GRAVEL	31.8	11.7	
660.9	PLEISTOCENE		BOULDER	2.2	43.5	
658.7	PLEISTOCENE		SAND/CLAY	39.3	45.7	

MAPID: 05784258000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.115087

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672288

DATE COLLECTED: 1 / 21 / 1965

SURFACE ELEVATION (FT.): 702.4 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8661

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.4	PLEISTOCENE		SOIL	1.0	0.0	
701.4	PLEISTOCENE		SANDY CLAY	22.7	1.0	YELLOW
678.7	PLEISTOCENE		SANDY CLAY	52.3	23.7	GRAY
626.4	CARBONDALE		LIMESTONE	1.7	76.0	
624.7	CARBONDALE		GRAY SHALE	7.3	77.7	

MAPID: 05784259000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.114427

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672567

DATE COLLECTED: 1 / 28 / 1965

SURFACE ELEVATION (FT.): 707.7 LOGGED (FT.): 54.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8663

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
707.7	PLEISTOCENE		SOIL	1.0	0.0	
706.7	PLEISTOCENE		SANDY CLAY	25.7	1.0	
681.0	PLEISTOCENE		SANDY CLAY	20.1	26.7	
660.9	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	46.8	
660.2	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.2	47.5	
656.0	CARBONDALE		UNDERCLAY	2.3	51.7	

MAPID: 05784260000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.114408

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671693

DATE COLLECTED: 1 / 29 / 1965

SURFACE ELEVATION (FT.): 706.8 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8664

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.8	PLEISTOCENE		SOIL	1.0	0.0	
705.8	PLEISTOCENE		SANDY CLAY	22.8	1.0	YELLOW
683.0	PLEISTOCENE		SANDY CLAY	41.2	23.8	GRAY

MAPID: 05784261000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113541

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672776

DATE COLLECTED: 1 / 29 / 1965

SURFACE ELEVATION (FT.): 709.0 LOGGED (FT.): 57.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8665

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.0	PLEISTOCENE		SOIL	1.0	0.0	
708.0	PLEISTOCENE		CLAY, SAND & GRAVEL	16.9	1.0	
691.1	PLEISTOCENE		SANDY CLAY	26.1	17.9	
665.0	CARBONDALE		DARK SHALE	6.0	44.0	
659.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	50.0	
658.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	50.5	
657.0	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.0	52.0	
653.0	CARBONDALE		UNDERCLAY	1.9	56.0	

MAPID: 05784262000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113579

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671711

DATE COLLECTED: 1 / 30 / 1965

SURFACE ELEVATION (FT.): 715.7 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8666

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.7	PLEISTOCENE		SOIL	1.0	0.0	
714.7	PLEISTOCENE		SANDY CLAY	22.7	1.0	YELLOW
692.0	PLEISTOCENE		SANDY CLAY	61.3	23.7	GRAY

MAPID: 05784263000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.115692

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672619

DATE COLLECTED: 2 / 3 / 1965

SURFACE ELEVATION (FT.): 706.3 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8669

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.3	PLEISTOCENE		SOIL	1.0	0.0	
705.3	PLEISTOCENE		SANDY CLAY	32.1	1.0	YELLOW
673.2	PLEISTOCENE		SANDY CLAY	40.9	33.1	GRAY
632.3	CARBONDALE		GRAY SHALE	11.0	74.0	

MAPID: 05784266000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101384

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675693

DATE COLLECTED: 5 / 8 / 1965

SURFACE ELEVATION (FT.): 723.8 LOGGED (FT.): 101.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8732

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.8	PLEISTOCENE		SOIL	1.0	0.0	
722.8	PLEISTOCENE		CLAY	17.9	1.0	BROWN
704.9	PLEISTOCENE		CLAY	49.2	18.9	GRAY
655.7	PLEISTOCENE		CLAY	10.1	68.1	
645.6	PLEISTOCENE		CLAY	23.5	78.2	GRAY

MAPID: 05784267000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101389

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675393

DATE COLLECTED: 5 / 10 / 1965

SURFACE ELEVATION (FT.): 724.2 LOGGED (FT.): 101.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8733

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.2	PLEISTOCENE		SOIL	1.0	0.0	
723.2	PLEISTOCENE		CLAY & GRAVEL	25.4	1.0	
697.8	PLEISTOCENE		CLAY	51.2	26.4	GRAY
646.6	PLEISTOCENE		CLAY	23.8	77.6	

MAPID: 05784268000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101684

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675198

DATE COLLECTED: 5 / 10 / 1965

SURFACE ELEVATION (FT.): 723.4 LOGGED (FT.): 101.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8734

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.4	PLEISTOCENE		SOIL	1.0	0.0	
722.4	PLEISTOCENE		CLAY	19.6	1.0	BROWN
702.8	PLEISTOCENE		CLAY	76.2	20.6	GRAY
626.6	PLEISTOCENE		GRAY SHALE	4.9	96.8	

MAPID: 05784269000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101714

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674911

DATE COLLECTED: 5 / 10 / 1965

SURFACE ELEVATION (FT.): 725.8 LOGGED (FT.): 90.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8735

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.8	PLEISTOCENE		SOIL	1.0	0.0	
724.8	PLEISTOCENE		CLAY	23.8	1.0	BROWN
701.0	PLEISTOCENE		CLAY	56.7	24.8	GRAY
644.3	CARBONDALE	SPRINGFIELD	COAL/CLAYSTONE	4.1	81.5	TOP ERODED
640.2	CARBONDALE		GRAY SHALE	3.8	85.6	
636.4	CARBONDALE		DARK SHALE	1.1	89.4	

MAPID: 05784270000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101759

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67464

DATE COLLECTED: 5 / 10 / 1965

SURFACE ELEVATION (FT.): 728.3 LOGGED (FT.): 91.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8736

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.3	PLEISTOCENE		SOIL	1.0	0.0	
727.3	PLEISTOCENE		CLAY	26.9	1.0	BROWN
700.4	PLEISTOCENE		CLAY	34.6	27.9	GRAY
665.8	CARBONDALE		GRAY SHALE	8.4	62.5	
657.4	CARBONDALE		DARK SHALE	12.6	70.9	
644.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	83.5	
643.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	85.0	
642.1	CARBONDALE	SPRINGFIELD	COAL WITH SHALE	3.5	86.2	
638.6	CARBONDALE		GRAY SHALE	1.9	89.7	

MAPID: 05784271000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102047

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67481

DATE COLLECTED: 5 / 11 / 1965

SURFACE ELEVATION (FT.): 727.4 LOGGED (FT.): 101.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8737

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.4	PLEISTOCENE		SOIL	1.0	0.0	
726.4	PLEISTOCENE		CLAY	25.1	1.0	BROWN
701.3	PLEISTOCENE		CLAY	61.8	26.1	GRAY
639.5	CARBONDALE		DARK SHALE	6.1	87.9	
633.4	CARBONDALE		LIMESTONE	0.9	94.0	
632.5	CARBONDALE		GRAY SHALE	6.5	94.9	

MAPID: 05784272000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102113

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674542

DATE COLLECTED: 5 / 11 / 1965

SURFACE ELEVATION (FT.): 730.3 LOGGED (FT.): 91.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8738

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.3	PLEISTOCENE		SOIL	1.0	0.0	
729.3	PLEISTOCENE		CLAY	24.7	1.0	BROWN
704.6	PLEISTOCENE		CLAY	32.6	25.7	GRAY
672.0	CARBONDALE		GRAY SHALE	13.6	58.3	
658.4	CARBONDALE		DARK SHALE	11.4	71.9	
647.0	CARBONDALE		DARK SHALE	0.7	83.3	
646.3	CARBONDALE	TURNER MINE	SHALE	2.0	84.0	
644.3	CARBONDALE	SPRINGFIELD	COAL	4.1	86.0	HARD
640.2	CARBONDALE		GRAY SHALE	1.5	90.1	

MAPID: 05784273000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102383

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67472

DATE COLLECTED: 5 / 11 / 1965

SURFACE ELEVATION (FT.): 728.7 LOGGED (FT.): 91.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8739

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.7	PLEISTOCENE		SOIL	1.0	0.0	
727.7	PLEISTOCENE		CLAY	39.3	1.0	BROWN
688.4	PLEISTOCENE		CLAY	29.8	40.3	GRAY
658.6	CARBONDALE		DARK SHALE	9.8	70.1	
648.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	79.9	
648.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	80.4	
647.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	81.2	
645.9	CARBONDALE	SPRINGFIELD	COAL	4.3	82.8	
641.6	CARBONDALE		GRAY SHALE	1.9	87.1	
639.7	CARBONDALE		LIMESTONE	0.7	89.0	
639.0	CARBONDALE		BLACK SHALE	1.9	89.7	

MAPID: 05784274000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102331

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674993

DATE COLLECTED: 5 / 11 / 1965

SURFACE ELEVATION (FT.): 726.6 LOGGED (FT.): 101.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8740

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.6	PLEISTOCENE		SOIL	1.0	0.0	
725.6	PLEISTOCENE		CLAY	32.5	1.0	BROWN
693.1	PLEISTOCENE		CLAY	62.9	33.5	GRAY
630.2	CARBONDALE		GRAY SHALE	4.7	96.4	

MAPID: 05784275000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10266 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674887 DATE COLLECTED: 5 / 12 / 1965

SURFACE ELEVATION (FT.): 727.4 LOGGED (FT.): 101.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8741 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.4	PLEISTOCENE		SOIL	1.0	0.0	
726.4	PLEISTOCENE		CLAY	23.3	1.0	BROWN
703.1	PLEISTOCENE		CLAY	62.4	24.3	GRAY
640.7	CARBONDALE		GRAY SHALE	14.9	86.7	

MAPID: 05784276000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102723 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67463 DATE COLLECTED: 5 / 12 / 1965

SURFACE ELEVATION (FT.): 728.9 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8742 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.9	PLEISTOCENE		SOIL	1.0	0.0	
727.9	PLEISTOCENE		CLAY	29.6	1.0	BROWN
698.3	PLEISTOCENE		CLAY	33.9	30.6	GRAY
664.4	CARBONDALE		DARK SHALE	12.9	64.5	
651.5	CARBONDALE	ST. DAVID	LIMESTONE	0.6	77.4	
650.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	78.0	
649.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	79.8	
647.6	CARBONDALE	SPRINGFIELD	COAL WITH SHALE	2.6	81.3	
645.0	CARBONDALE		GRAY SHALE	2.1	83.9	

MAPID: 05784277000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103003

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674805

DATE COLLECTED: 5 / 12 / 1965

SURFACE ELEVATION (FT.): 728.6 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8743

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.6	PLEISTOCENE		SOIL	1.0	0.0	
727.6	PLEISTOCENE		CLAY	35.5	1.0	BROWN
692.1	PLEISTOCENE		CLAY	43.3	36.5	GRAY
648.8	CARBONDALE		BLACK SHALE	1.4	79.8	
647.4	CARBONDALE		DARK SHALE	1.8	81.2	
645.6	CARBONDALE		GRAY SHALE	17.1	83.0	

MAPID: 05784278000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103055

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674518

DATE COLLECTED: 5 / 12 / 1965

SURFACE ELEVATION (FT.): 729.5 LOGGED (FT.): 88.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8744

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.5	PLEISTOCENE		SOIL	1.0	0.0	
728.5	PLEISTOCENE		CLAY	41.3	1.0	BROWN
687.2	PLEISTOCENE		CLAY	17.6	42.3	
669.6	CARBONDALE		GRAY SHALE	4.3	59.9	
665.3	CARBONDALE		DARK SHALE	11.0	64.2	
654.3	CARBONDALE		DARK SHALE	1.2	75.2	
653.1	CARBONDALE	TURNER MINE	BLACK SHALE	2.1	76.4	
651.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.4	78.5	
650.6	CARBONDALE	SPRINGFIELD	COAL	4.0	78.9	HARD
646.6	CARBONDALE		GRAY SHALE	3.8	82.9	
642.8	CARBONDALE		DARK SHALE	2.1	86.7	

MAPID: 05784279000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103347

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674704

DATE COLLECTED: 5 / 12 / 1965

SURFACE ELEVATION (FT.): 727.7 LOGGED (FT.): 80.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8745

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.7	PLEISTOCENE		SOIL	1.0	0.0	
726.7	PLEISTOCENE		CLAY	26.3	1.0	BROWN
700.4	PLEISTOCENE		CLAY	45.8	27.3	GRAY
654.6	CARBONDALE	SPRINGFIELD	COAL	2.3	73.1	SOFT; TOP ERODED
652.3	CARBONDALE		GRAY SHALE	3.2	75.4	
649.1	CARBONDALE		DARK SHALE	2.1	78.6	

MAPID: 05784280000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103409

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674417

DATE COLLECTED: 5 / 12 / 1965

SURFACE ELEVATION (FT.): 729.0 LOGGED (FT.): 81.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8746

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.0	PLEISTOCENE		SOIL	1.0	0.0	
728.0	PLEISTOCENE		CLAY	33.5	1.0	BROWN
694.5	PLEISTOCENE		CLAY	24.4	34.5	GRAY
670.1	PLEISTOCENE		CLAY	4.7	58.9	BROWN
665.4	CARBONDALE		DARK SHALE	10.2	63.6	
655.2	CARBONDALE	ST. DAVID	LIMESTONE	0.3	73.8	
654.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	74.1	
653.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	75.3	
652.0	CARBONDALE	SPRINGFIELD	COAL	3.9	77.0	
648.1	CARBONDALE		GRAY SHALE	0.7	80.9	

MAPID: 05784281000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103686

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674598

DATE COLLECTED: 5 / 12 / 1965

SURFACE ELEVATION (FT.): 727.7 LOGGED (FT.): 80.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8747

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.7	PLEISTOCENE		SOIL	1.0	0.0	
726.7	PLEISTOCENE		CLAY	34.6	1.0	BROWN
692.1	PLEISTOCENE		CLAY	36.8	35.6	GRAY
655.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	72.4	
654.6	CARBONDALE	SPRINGFIELD	COAL	1.5	73.1	SOFT
653.1	CARBONDALE		BROWN SHALE	2.6	74.6	
650.5	CARBONDALE		GRAY SHALE	3.1	77.2	

MAPID: 05784282000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103746

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674321

DATE COLLECTED: 5 / 13 / 1965

SURFACE ELEVATION (FT.): 728.9 LOGGED (FT.): 80.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8748

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.9	PLEISTOCENE		SOIL	1.0	0.0	
727.9	PLEISTOCENE		CLAY	34.0	1.0	BROWN
693.9	PLEISTOCENE		SANDY CLAY	34.3	35.0	
659.6	CARBONDALE		DARK SHALE	2.4	69.3	
657.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	71.7	
655.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	73.1	
654.8	CARBONDALE	SPRINGFIELD	COAL	4.0	74.1	HARD
650.8	CARBONDALE		GRAY SHALE	2.2	78.1	

MAPID: 05784283000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104019

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674502

DATE COLLECTED: 5 / 13 / 1965

SURFACE ELEVATION (FT.): 727.4 LOGGED (FT.): 91.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8749

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.4	PLEISTOCENE		SOIL	1.0	0.0	
726.4	PLEISTOCENE		CLAY	24.8	1.0	BROWN
701.6	PLEISTOCENE		CLAY	53.9	25.8	GRAY
647.7	CARBONDALE		GRAY SHALE	11.9	79.7	

MAPID: 05784284000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104082

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674231

DATE COLLECTED: 5 / 13 / 1965

SURFACE ELEVATION (FT.): 729.2 LOGGED (FT.): 78.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8750

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.2	PLEISTOCENE		SOIL	1.0	0.0	
728.2	PLEISTOCENE		CLAY	24.3	1.0	BROWN
703.9	PLEISTOCENE		CLAY	38.8	25.3	GRAY
665.1	PLEISTOCENE		CLAY	6.1	64.1	BROWN
659.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	70.2	
658.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	71.0	
657.5	CARBONDALE	SPRINGFIELD	COAL	4.3	71.7	
653.2	CARBONDALE		GRAY SHALE	2.0	76.0	

MAPID: 05784285000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104352

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674407

DATE COLLECTED: 5 / 13 / 1965

SURFACE ELEVATION (FT.): 728.2 LOGGED (FT.): 91.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8751

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.2	PLEISTOCENE		SOIL	1.0	0.0	
727.2	PLEISTOCENE		CLAY	23.6	1.0	BROWN
703.6	PLEISTOCENE		CLAY	57.1	24.6	GRAY
646.5	CARBONDALE		GRAY SHALE	9.9	81.7	

MAPID: 05784286000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104433

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674139

DATE COLLECTED: 5 / 13 / 1965

SURFACE ELEVATION (FT.): 729.0 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8752

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.0	PLEISTOCENE		SOIL	1.0	0.0	
728.0	PLEISTOCENE		CLAY	25.9	1.0	BROWN
702.1	PLEISTOCENE		CLAY	40.3	26.9	GRAY
661.8	PLEISTOCENE		CLAY	2.4	67.2	BROWN
659.4	CARBONDALE	SPRINGFIELD	COAL	4.5	69.6	SOFT; TOP ERODED
654.9	CARBONDALE		GRAY SHALE	3.8	74.1	
651.1	CARBONDALE		DARK SHALE	2.1	77.9	

MAPID: 05784287000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104289

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673883

DATE COLLECTED: 5 / 13 / 1965

SURFACE ELEVATION (FT.): 729.6 LOGGED (FT.): 81.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8753

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.6	PLEISTOCENE		SOIL	1.0	0.0	
728.6	PLEISTOCENE		CLAY	28.4	1.0	BROWN
700.2	PLEISTOCENE		CLAY	36.5	29.4	GRAY
663.7	PLEISTOCENE		CLAY	2.9	65.9	BROWN
660.8	CARBONDALE		DARK SHALE	2.0	68.8	
658.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	70.8	
657.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	72.6	
655.7	CARBONDALE	SPRINGFIELD	COAL WITH SHALE	3.8	73.9	
651.9	CARBONDALE		GRAY SHALE	3.9	77.7	

MAPID: 05784288000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104637

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67392

DATE COLLECTED: 5 / 14 / 1965

SURFACE ELEVATION (FT.): 729.1 LOGGED (FT.): 81.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8754

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.1	PLEISTOCENE		SOIL	1.0	0.0	
728.1	PLEISTOCENE		CLAY	25.9	1.0	BROWN
702.2	PLEISTOCENE		CLAY	43.7	26.9	GRAY
658.5	CARBONDALE	SPRINGFIELD	COAL	4.3	70.6	TOP ERODED
654.2	CARBONDALE		GRAY SHALE	4.4	74.9	
649.8	CARBONDALE		BLACK SHALE	1.8	79.3	
648.0	CARBONDALE		LIMESTONE	0.6	81.1	

MAPID: 05784289000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104501

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673669

DATE COLLECTED: 5 / 14 / 1965

SURFACE ELEVATION (FT.): 729.6 LOGGED (FT.): 81.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8755

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.6	PLEISTOCENE		SOIL	1.0	0.0	
728.6	PLEISTOCENE		CLAY	25.9	1.0	BROWN
702.7	PLEISTOCENE		CLAY	37.3	26.9	GRAY
665.4	CARBONDALE		BROWN SHALE	4.6	64.2	
660.8	CARBONDALE		DARK SHALE	2.4	68.8	
658.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	71.2	
657.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	72.3	
655.8	CARBONDALE	SPRINGFIELD	COAL	4.1	73.8	HARD
651.7	CARBONDALE		GRAY SHALE	3.8	77.9	

MAPID: 05784290000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104874

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673703

DATE COLLECTED: 5 / 14 / 1965

SURFACE ELEVATION (FT.): 728.3 LOGGED (FT.): 81.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8756

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.3	PLEISTOCENE		SOIL	1.0	0.0	
727.3	PLEISTOCENE		CLAY	24.8	1.0	BROWN
702.5	PLEISTOCENE		CLAY	29.6	25.8	GRAY
672.9	PLEISTOCENE		CLAY	12.2	55.4	
660.7	CARBONDALE	TURNER MINE	DARK SHALE	1.5	67.6	
659.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	69.1	
658.1	CARBONDALE	SPRINGFIELD	COAL	4.1	70.2	HARD
654.0	CARBONDALE		GRAY SHALE	6.1	74.3	
647.9	CARBONDALE		LIMESTONE	1.2	80.4	

MAPID: 05784291000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105007

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673954

DATE COLLECTED: 5 / 14 / 1965

SURFACE ELEVATION (FT.): 728.5 LOGGED (FT.): 80.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8757

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.5	PLEISTOCENE		SOIL	1.0	0.0	
727.5	PLEISTOCENE		CLAY	26.6	1.0	BROWN
700.9	PLEISTOCENE		CLAY	45.0	27.6	GRAY
655.9	CARBONDALE	SPRINGFIELD	COAL	2.1	72.6	BLOSSOM; TOP ERODED
653.8	CARBONDALE		GRAY SHALE	2.2	74.7	
651.6	CARBONDALE		DARK SHALE	3.3	76.9	

MAPID: 05784292000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105219

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673743

DATE COLLECTED: 5 / 14 / 1965

SURFACE ELEVATION (FT.): 728.4 LOGGED (FT.): 80.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8758

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.4	PLEISTOCENE		SOIL	1.0	0.0	
727.4	PLEISTOCENE		CLAY	25.2	1.0	BROWN
702.2	PLEISTOCENE		CLAY	40.3	26.2	GRAY
661.9	PLEISTOCENE		CLAY	3.6	66.5	BROWN
658.3	CARBONDALE	SPRINGFIELD	COAL	4.1	70.1	TOP ERODED
654.2	CARBONDALE		GRAY SHALE	6.1	74.2	

MAPID: 05784293000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10509 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673476 DATE COLLECTED: 5 / 14 / 1965

SURFACE ELEVATION (FT.): 727.6 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8759 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.6	PLEISTOCENE		SOIL	1.0	0.0	
726.6	PLEISTOCENE		CLAY	26.0	1.0	BROWN
700.6	PLEISTOCENE		CLAY	16.0	27.0	GRAY
684.6	PLEISTOCENE		SAND & GRAVEL	7.3	43.0	
677.3	PLEISTOCENE		CLAY	15.1	50.3	
662.2	CARBONDALE		DARK SHALE	1.9	65.4	
660.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	67.3	
658.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	68.9	
657.4	CARBONDALE	SPRINGFIELD	COAL	3.9	70.2	HARD
653.5	CARBONDALE		GRAY SHALE	2.5	74.1	
651.0	CARBONDALE		DARK SHALE	4.4	76.6	

MAPID: 05784294000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105445 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673526 DATE COLLECTED: 5 / 15 / 1965

SURFACE ELEVATION (FT.): 726.4 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8760 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.4	PLEISTOCENE		SOIL	1.0	0.0	
725.4	PLEISTOCENE		CLAY	23.7	1.0	BROWN
701.7	PLEISTOCENE		CLAY	42.6	24.7	GRAY
659.1	CARBONDALE	TURNER MINE	BLACK SHALE	2.1	67.3	
657.0	CARBONDALE	SPRINGFIELD	COAL	3.0	69.4	HARD
654.0	CARBONDALE		GRAY SHALE	2.6	72.4	

MAPID: 05784295000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105571

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673785

DATE COLLECTED: 5 / 15 / 1965

SURFACE ELEVATION (FT.): 727.3 LOGGED (FT.): 81.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8761

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.3	PLEISTOCENE		SOIL	1.0	0.0	
726.3	PLEISTOCENE		CLAY	23.5	1.0	BROWN
702.8	PLEISTOCENE		CLAY	56.7	24.5	GRAY

MAPID: 05784296000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105801

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673549

DATE COLLECTED: 5 / 15 / 1965

SURFACE ELEVATION (FT.): 722.6 LOGGED (FT.): 70.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8762

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.6	PLEISTOCENE		SOIL	1.0	0.0	
721.6	PLEISTOCENE		CLAY	6.4	1.0	BROWN
715.2	PLEISTOCENE		CLAY	59.9	7.4	GRAY
655.3	CARBONDALE	SPRINGFIELD	COAL	1.8	67.3	BLOSSOM; TOP ERODED
653.5	CARBONDALE		CLAYSTONE	1.8	69.1	

MAPID: 05784297000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105635

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673285

DATE COLLECTED: 5 / 15 / 1965

SURFACE ELEVATION (FT.): 723.0 LOGGED (FT.): 71.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8763

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.0	PLEISTOCENE		SOIL	1.0	0.0	
722.0	PLEISTOCENE		CLAY	19.1	1.0	
702.9	PLEISTOCENE		GRAVEL	4.5	20.1	
698.4	PLEISTOCENE		CLAY	42.5	24.6	
655.9	CARBONDALE	SPRINGFIELD	COAL	1.7	67.1	SOFT; TOP ERODED
654.2	CARBONDALE		GRAY SHALE	2.7	68.8	

MAPID: 05784298000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105251

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673268

DATE COLLECTED: 5 / 15 / 1965

SURFACE ELEVATION (FT.): 726.2 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8764

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.2	PLEISTOCENE		SOIL	1.0	0.0	
725.2	PLEISTOCENE		CLAY	23.9	1.0	BROWN
701.3	PLEISTOCENE		CLAY	41.8	24.9	GRAY
659.5	CARBONDALE		GRAY SHALE	1.1	66.7	
658.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	67.8	
657.5	CARBONDALE	SPRINGFIELD	COAL	4.3	68.7	HARD
653.2	CARBONDALE		GRAY SHALE	2.0	73.0	

MAPID: 05784299000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105492

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673038

DATE COLLECTED: 5 / 17 / 1965

SURFACE ELEVATION (FT.): 721.4 LOGGED (FT.): 81.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8765

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.4	PLEISTOCENE		SOIL	1.0	0.0	
720.4	PLEISTOCENE		CLAY	19.8	1.0	
700.6	PLEISTOCENE		CLAY	60.9	20.8	GRAY

MAPID: 05784300000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105122

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673007

DATE COLLECTED: 5 / 17 / 1965

SURFACE ELEVATION (FT.): 723.0 LOGGED (FT.): 46.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8766

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.0	PLEISTOCENE		SOIL	1.0	0.0	
722.0	PLEISTOCENE		CLAY	19.4	1.0	BROWN
702.6	PLEISTOCENE		CLAY	26.0	20.4	GRAY

MAPID: 05784301000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104921

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673223

DATE COLLECTED: 5 / 17 / 1965

SURFACE ELEVATION (FT.): 728.1 LOGGED (FT.): 26.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8767

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.1	PLEISTOCENE		SOIL	1.0	0.0	
727.1	PLEISTOCENE		CLAY	15.3	1.0	
711.8	PLEISTOCENE		GRAVEL	5.1	16.3	
706.7	PLEISTOCENE		CLAY	5.3	21.4	

MAPID: 05784302000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104774

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672984

DATE COLLECTED: 5 / 17 / 1965

SURFACE ELEVATION (FT.): 726.7 LOGGED (FT.): 81.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8768

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.7	PLEISTOCENE		SOIL	1.0	0.0	
725.7	PLEISTOCENE		CLAY	22.8	1.0	BROWN
702.9	PLEISTOCENE		CLAY	50.1	23.8	GRAY
652.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	73.9	
650.5	CARBONDALE	SPRINGFIELD	COAL	3.3	76.2	HARD
647.2	CARBONDALE		GRAY SHALE	1.8	79.5	

MAPID: 05784303000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104982

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672748

DATE COLLECTED: 5 / 18 / 1965

SURFACE ELEVATION (FT.): 724.1 LOGGED (FT.): 91.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8769

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.1	PLEISTOCENE		SOIL	1.0	0.0	
723.1	PLEISTOCENE		CLAY	21.7	1.0	BROWN
701.4	PLEISTOCENE		CLAY	11.6	22.7	GRAY
689.8	PLEISTOCENE		CLAY	9.6	34.3	BROWN
680.2	PLEISTOCENE		CLAY	29.0	43.9	GRAY
651.2	PLEISTOCENE		CLAY	6.4	72.9	
644.8	CARBONDALE		BLACK SHALE	3.9	79.3	
640.9	CARBONDALE		LIMESTONE	2.2	83.2	
638.7	CARBONDALE		GRAY SHALE	6.2	85.4	

MAPID: 05784304000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104601

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672736

DATE COLLECTED: 5 / 18 / 1965

SURFACE ELEVATION (FT.): 727.8 LOGGED (FT.): 88.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8770

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.8	PLEISTOCENE		SOIL	1.0	0.0	
726.8	PLEISTOCENE		CLAY	21.6	1.0	BROWN
705.2	PLEISTOCENE		CLAY	59.7	22.6	GRAY
645.5			BLACK SHALE	4.1	82.3	
641.4			LIMESTONE	1.6	86.4	

MAPID: 05784305000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104422 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672947 DATE COLLECTED: 5 / 18 / 1965

SURFACE ELEVATION (FT.): 729.0 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8771 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.0	PLEISTOCENE		SOIL	1.0	0.0	
728.0	PLEISTOCENE		CLAY	24.4	1.0	BROWN
703.6	PLEISTOCENE		CLAY	14.5	25.4	GRAY
689.1	PLEISTOCENE		CLAY	10.8	39.9	BROWN
678.3	CARBONDALE		CLAY	13.1	50.7	GRAY
665.2	CARBONDALE		GRAY SHALE	2.3	63.8	
662.9	CARBONDALE		DARK SHALE	9.7	66.1	
653.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	75.8	
651.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	77.7	
650.1	CARBONDALE	SPRINGFIELD	COAL	4.3	78.9	HARD
645.8	CARBONDALE		GRAY SHALE	1.8	83.2	

MAPID: 05784306000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104275 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672688 DATE COLLECTED: 5 / 18 / 1965

SURFACE ELEVATION (FT.): 728.4 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8772 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.4	PLEISTOCENE		SOIL	1.0	0.0	
727.4	PLEISTOCENE		CLAY	24.6	1.0	BROWN
702.8	PLEISTOCENE		CLAY	19.9	25.6	GRAY
682.9	PLEISTOCENE		CLAY	15.7	45.5	BROWN
667.2	PLEISTOCENE		CLAY	4.4	61.2	GRAY
662.8	CARBONDALE		DARK SHALE	11.4	65.6	
651.4	CARBONDALE	ST. DAVID	LIMESTONE	0.9	77.0	
650.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	77.9	
649.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	78.7	
647.8	CARBONDALE	SPRINGFIELD	COAL	4.1	80.6	HARD
643.7	CARBONDALE		GRAY SHALE	2.3	84.7	

MAPID: 05784307000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104476

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672469

DATE COLLECTED: 5 / 18 / 1965

SURFACE ELEVATION (FT.): 727.1 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8773

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.1	PLEISTOCENE		SOIL	1.0	0.0	
726.1	PLEISTOCENE		CLAY	23.2	1.0	BROWN
702.9	PLEISTOCENE		CLAY	22.6	24.2	GRAY
680.3	PLEISTOCENE		CLAY	8.6	46.8	BROWN
671.7	PLEISTOCENE		CLAY	11.7	55.4	GRAY
660.0	CARBONDALE		DARK SHALE	8.4	67.1	
651.6	CARBONDALE	ST. DAVID	LIMESTONE	0.6	75.5	
651.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	76.1	
650.2	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	76.9	
648.2	CARBONDALE	SPRINGFIELD	COAL	3.9	78.9	HARD
644.3	CARBONDALE		GRAY SHALE	2.2	82.8	

MAPID: 05784308000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104842

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672495

DATE COLLECTED: 5 / 18 / 1965

SURFACE ELEVATION (FT.): 725.8 LOGGED (FT.): 81.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8774

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.8	PLEISTOCENE		SOIL	1.0	0.0	
724.8	PLEISTOCENE		CLAY	26.8	1.0	BROWN
698.0	PLEISTOCENE		CLAY	39.8	27.8	GRAY
658.2	CARBONDALE		BROWN SHALE	1.3	67.6	
656.9	CARBONDALE		DARK SHALE	5.0	68.9	
651.9	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	73.9	
651.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	74.6	
649.9	CARBONDALE	SPRINGFIELD	COAL	4.1	75.9	
645.8	CARBONDALE		GRAY SHALE	1.5	80.0	

MAPID: 05784309000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105197

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672518

DATE COLLECTED: 5 / 19 / 1965

SURFACE ELEVATION (FT.): 727.0 LOGGED (FT.): 81.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8775

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.0	PLEISTOCENE		SOIL	1.0	0.0	
726.0	PLEISTOCENE		CLAY	24.1	1.0	BROWN
701.9	PLEISTOCENE		CLAY	39.3	25.1	GRAY
662.6	PLEISTOCENE		CLAY	10.2	64.4	YELLOW
652.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	74.6	
651.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	76.0	
650.5	CARBONDALE	SPRINGFIELD	COAL	2.7	76.5	HARD
647.8	CARBONDALE	SPRINGFIELD	COAL WITH SHALE	1.4	79.2	
646.4	CARBONDALE		GRAY SHALE	1.0	80.6	

MAPID: 05784310000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105439

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67274

DATE COLLECTED: 5 / 19 / 1965

SURFACE ELEVATION (FT.): 725.2 LOGGED (FT.): 91.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8776

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.2	PLEISTOCENE		SOIL	1.0	0.0	
724.2	PLEISTOCENE		CLAY	28.6	1.0	BROWN
695.6	PLEISTOCENE		CLAY	22.6	29.6	GRAY
673.0	PLEISTOCENE		CLAY	21.9	52.2	BROWN
651.1	PLEISTOCENE		CLAY	9.6	74.1	GRAY
641.5	CARBONDALE		GRAY SHALE	7.8	83.7	

MAPID: 05784311000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105618

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672519

DATE COLLECTED: 5 / 19 / 1965

SURFACE ELEVATION (FT.): 725.1 LOGGED (FT.): 81.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8777

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.1	PLEISTOCENE		SOIL	1.0	0.0	
724.1	PLEISTOCENE		CLAY	22.4	1.0	BROWN
701.7	PLEISTOCENE		CLAY	44.7	23.4	GRAY
657.0	PLEISTOCENE		CLAY	7.2	68.1	BROWN
649.8	CARBONDALE	SPRINGFIELD	COAL	1.9	75.3	TOP ERODED
647.9	CARBONDALE		GRAY SHALE	4.4	77.2	

MAPID: 05784312000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105496

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672293

DATE COLLECTED: 5 / 19 / 1965

SURFACE ELEVATION (FT.): 726.1 LOGGED (FT.): 83.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8778

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.1	PLEISTOCENE		SOIL	1.0	0.0	
725.1	PLEISTOCENE		CLAY	28.1	1.0	BROWN
697.0	PLEISTOCENE		CLAY	23.7	29.1	GRAY
673.3	CARBONDALE		BROWN SHALE	8.3	52.8	
665.0	CARBONDALE		DARK SHALE	13.8	61.1	
651.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	74.9	
650.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	75.3	
649.6	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	76.5	
648.7	CARBONDALE	SPRINGFIELD	COAL	4.2	77.4	HARD
644.5	CARBONDALE		GRAY SHALE	1.4	81.6	

MAPID: 05784313000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105833

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672302

DATE COLLECTED: 5 / 19 / 1965

SURFACE ELEVATION (FT.): 725.9 LOGGED (FT.): 81.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8779

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.9	PLEISTOCENE		SOIL	1.0	0.0	
724.9	PLEISTOCENE		CLAY	24.6	1.0	BROWN
700.3	PLEISTOCENE		CLAY	33.7	25.6	GRAY
666.6	CARBONDALE		GRAY SHALE	3.5	59.3	
663.1	CARBONDALE		DARK SHALE	10.8	62.8	
652.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	73.6	
651.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	74.8	
650.2	CARBONDALE	SPRINGFIELD	COAL	4.0	75.7	HARD
646.2	CARBONDALE		GRAY SHALE	1.8	79.7	

MAPID: 05784314000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106013

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672547

DATE COLLECTED: 8 / 19 / 1965

SURFACE ELEVATION (FT.): 725.6 LOGGED (FT.): 91.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8780

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.6	PLEISTOCENE		SOIL	1.0	0.0	
724.6	PLEISTOCENE		CLAY	22.1	1.0	BROWN
702.5	PLEISTOCENE		CLAY	57.2	23.1	GRAY
645.3	CARBONDALE		DARK SHALE	2.3	80.3	
643.0	CARBONDALE		LIMESTONE	2.1	82.6	
640.9	CARBONDALE		GRAY SHALE	6.9	84.7	

MAPID: 05784315000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107784

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670375

DATE COLLECTED: 5 / 20 / 1965

SURFACE ELEVATION (FT.): 718.0 LOGGED (FT.): 78.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8781

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.0	PLEISTOCENE		SOIL	1.0	0.0	
717.0	PLEISTOCENE		CLAY	31.8	1.0	BROWN
685.2	PLEISTOCENE		CLAY	4.3	32.8	GRAY
680.9	CARBONDALE		BROWN SHALE	7.6	37.1	
673.3	CARBONDALE		DARK SHALE	7.6	44.7	
665.7	CARBONDALE		DARK SHALE	8.5	52.3	
657.2	CARBONDALE		DARK SHALE	8.9	60.8	
648.3	CARBONDALE	ST. DAVID	LIMESTONE	1.1	69.7	
647.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	70.8	
646.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	71.5	
645.3	CARBONDALE	SPRINGFIELD	COAL	4.2	72.7	HARD
641.1	CARBONDALE		GRAY SHALE	1.8	76.9	

MAPID: 05784316000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108053

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670536

DATE COLLECTED: 5 / 20 / 1965

SURFACE ELEVATION (FT.): 719.9 LOGGED (FT.): 81.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8782

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.9	PLEISTOCENE		SOIL	1.0	0.0	
718.9	PLEISTOCENE		CLAY	21.5	1.0	BROWN
697.4	PLEISTOCENE		CLAY	19.8	22.5	GRAY
677.6	CARBONDALE		BROWN SHALE	12.5	42.3	
665.1	CARBONDALE		GRAY SHALE	4.8	54.8	
660.3	CARBONDALE		DARK SHALE	12.7	59.6	
647.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	72.3	
646.3	CARBONDALE	SPRINGFIELD	COAL	4.0	73.6	HARD
642.3	CARBONDALE		GRAY SHALE	3.9	77.6	

MAPID: 05784317000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107954

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670813

DATE COLLECTED: 5 / 20 / 1965

SURFACE ELEVATION (FT.): 716.9 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8783

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.9	PLEISTOCENE		SOIL	1.0	0.0	
715.9	PLEISTOCENE		CLAY	51.1	1.0	GRAY
664.8	PLEISTOCENE		CLAY	5.5	52.1	BROWN
659.3	CARBONDALE		DARK SHALE	8.8	57.6	
650.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	66.4	
648.8	CARBONDALE	SPRINGFIELD	COAL WITH SHALE	3.5	68.1	
645.3	CARBONDALE		GRAY SHALE	3.4	71.6	

MAPID: 05784318000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108015

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671066

DATE COLLECTED: 5 / 20 / 1965

SURFACE ELEVATION (FT.): 713.5 LOGGED (FT.): 69.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8784

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.5	PLEISTOCENE		SOIL	1.0	0.0	
712.5	PLEISTOCENE		CLAY	12.4	1.0	BROWN
700.1	PLEISTOCENE		CLAY	43.9	13.4	GRAY
656.2	PLEISTOCENE		CLAY	1.9	57.3	BROWN
654.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	59.2	
653.1	CARBONDALE	SPRINGFIELD	COAL	3.7	60.4	
649.4	CARBONDALE		GRAY SHALE	5.2	64.1	

MAPID: 05784319000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108314

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670902

DATE COLLECTED: 5 / 20 / 1965

SURFACE ELEVATION (FT.): 717.0 LOGGED (FT.): 79.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8785

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.0	PLEISTOCENE		SOIL	1.0	0.0	
716.0	PLEISTOCENE		CLAY	15.3	1.0	BROWN
700.7	PLEISTOCENE		CLAY	41.8	16.3	
658.9	CARBONDALE		BROWN SHALE	6.3	58.1	
652.6	CARBONDALE		DARK SHALE	3.2	64.4	
649.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	67.6	
648.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	68.1	
647.3	CARBONDALE	SPRINGFIELD	COAL	3.7	69.7	
643.6	CARBONDALE		GRAY SHALE	6.1	73.4	

MAPID: 05784320000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108414

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671186

DATE COLLECTED: 5 / 20 / 1965

SURFACE ELEVATION (FT.): 722.2 LOGGED (FT.): 81.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8786

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.2	PLEISTOCENE		SOIL	1.0	0.0	
721.2	PLEISTOCENE		CLAY	24.9	1.0	BROWN
696.3	PLEISTOCENE		CLAY	48.8	25.9	GRAY
647.5	PLEISTOCENE		CLAY	3.2	74.7	BROWN
644.3	CARBONDALE		DARK SHALE	1.1	77.9	
643.2	CARBONDALE		LIMESTONE	1.8	79.0	
641.4	CARBONDALE		GRAY SHALE	0.8	80.8	

MAPID: 05784321000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108659

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670964

DATE COLLECTED: 5 / 21 / 1965

SURFACE ELEVATION (FT.): 722.2 LOGGED (FT.): 81.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8787

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.2	PLEISTOCENE		SOIL	1.0	0.0	
721.2	PLEISTOCENE		CLAY	22.4	1.0	BROWN
698.8	PLEISTOCENE		CLAY	49.3	23.4	GRAY
649.5	CARBONDALE	SPRINGFIELD	COAL	2.5	72.7	BLOSSOM; TOP ERODED
647.0	CARBONDALE		CLAYSTONE	2.2	75.2	BROWN
644.8	CARBONDALE		DARK SHALE	4.3	77.4	

MAPID: 05784322000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108551

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670702

DATE COLLECTED: 5 / 21 / 1968

SURFACE ELEVATION (FT.): 722.6 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8788

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.6	PLEISTOCENE		SOIL	1.0	0.0	
721.6	PLEISTOCENE		CLAY	25.8	1.0	BROWN
695.8	PLEISTOCENE		CLAY	35.8	26.8	GRAY
660.0	CARBONDALE		BROWN SHALE	5.3	62.6	
654.7	CARBONDALE		DARK SHALE	3.3	67.9	
651.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	71.2	
650.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	72.5	
648.8	CARBONDALE	SPRINGFIELD	COAL	3.9	73.8	HARD
644.9	CARBONDALE		GRAY SHALE	2.3	77.7	

MAPID: 05784323000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108911

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670772

DATE COLLECTED: 5 / 21 / 1965

SURFACE ELEVATION (FT.): 723.7 LOGGED (FT.): 80.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8789

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.7	PLEISTOCENE		SOIL	1.0	0.0	
722.7	PLEISTOCENE		CLAY	26.5	1.0	BROWN
696.2	PLEISTOCENE		CLAY	41.8	27.5	GRAY
654.4	PLEISTOCENE		CLAY	5.2	69.3	BROWN
649.2	CARBONDALE	SPRINGFIELD	COAL	4.0	74.5	SOFT; TOP ERODED
645.2	CARBONDALE		CLAYSTONE	2.0	78.5	GRAY

MAPID: 05784324000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10881

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670494

DATE COLLECTED: 5 / 21 / 1965

SURFACE ELEVATION (FT.): 724.2 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8790

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.2	PLEISTOCENE		SOIL	1.0	0.0	
723.2	PLEISTOCENE		CLAY	24.9	1.0	BROWN
698.3	PLEISTOCENE		CLAY	33.9	25.9	GRAY
664.4	CARBONDALE		SHALE	6.7	59.8	GRAY GREEN
657.7	CARBONDALE		DARK SHALE	8.4	66.5	
649.3	CARBONDALE	ST. DAVID	LIMESTONE	0.8	74.9	
648.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	75.7	
646.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	77.5	
646.2	CARBONDALE	SPRINGFIELD	COAL	3.9	78.0	HARD
642.3	CARBONDALE		GRAY SHALE	3.1	81.9	

MAPID: 05784325000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109133

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670567

DATE COLLECTED: 5 / 21 / 1965

SURFACE ELEVATION (FT.): 724.2 LOGGED (FT.): 83.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8791

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.2	PLEISTOCENE		SOIL	1.0	0.0	
723.2	PLEISTOCENE		CLAY	27.6	1.0	BROWN
695.6	PLEISTOCENE		CLAY	40.1	28.6	GRAY
655.5	CARBONDALE		BROWN SHALE	7.4	68.7	
648.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	76.1	
646.6	CARBONDALE	SPRINGFIELD	COAL	4.1	77.6	HARD
642.5	CARBONDALE		GRAY SHALE	1.3	81.7	

MAPID: 05784326000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109266

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670831

DATE COLLECTED: 5 / 21 / 1965

SURFACE ELEVATION (FT.): 722.6 LOGGED (FT.): 91.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8792

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.6	PLEISTOCENE		SOIL	1.0	0.0	
721.6	PLEISTOCENE		CLAY	24.7	1.0	BROWN
696.9	PLEISTOCENE		CLAY	53.7	25.7	GRAY
643.2	PLEISTOCENE		CLAY	12.2	79.4	BROWN

MAPID: 05784327000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109475

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670634

DATE COLLECTED: 5 / 22 / 1965

SURFACE ELEVATION (FT.): 723.0 LOGGED (FT.): 91.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8793

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.0	PLEISTOCENE		SOIL	1.0	0.0	
722.0	PLEISTOCENE		CLAY	25.4	1.0	BROWN
696.6	PLEISTOCENE		CLAY	56.2	26.4	GRAY
640.4	PLEISTOCENE		CLAY	2.8	82.6	BROWN
637.6	CARBONDALE		DARK SHALE	1.2	85.4	
636.4	CARBONDALE		LIMESTONE	2.1	86.6	
634.3	CARBONDALE		GRAY SHALE	3.0	88.7	

MAPID: 05784328000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109371

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670375

DATE COLLECTED: 5 / 22 / 1965

SURFACE ELEVATION (FT.): 724.1 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8794

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.1	PLEISTOCENE		SOIL	1.0	0.0	
723.1	PLEISTOCENE		CLAY	23.8	1.0	BROWN
699.3	PLEISTOCENE		CLAY	49.3	24.8	
650.0	CARBONDALE		BROWN SHALE	4.2	74.1	
645.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	78.3	
645.0	CARBONDALE	SPRINGFIELD	COAL	4.4	79.1	HARD
640.6	CARBONDALE		GRAY SHALE	1.5	83.5	

MAPID: 05784329000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109719

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670445

DATE COLLECTED: 5 / 22 / 1965

SURFACE ELEVATION (FT.): 723.7 LOGGED (FT.): 82.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8795

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.7	PLEISTOCENE		SOIL	1.0	0.0	
722.7	PLEISTOCENE		CLAY	27.6	1.0	BROWN
695.1	PLEISTOCENE		CLAY	46.7	28.6	GRAY
648.4	CARBONDALE		BROWN SHALE	0.8	75.3	
647.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	76.1	
646.3	CARBONDALE	SPRINGFIELD	COAL	4.1	77.4	HARD
642.2	CARBONDALE		GRAY SHALE	1.3	81.5	

MAPID: 05784330000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109827

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670696

DATE COLLECTED: 5 / 22 / 1965

SURFACE ELEVATION (FT.): 722.5 LOGGED (FT.): 91.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8796

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.5	PLEISTOCENE		SOIL	1.0	0.0	
721.5	PLEISTOCENE		CLAY	24.6	1.0	BROWN
696.9	PLEISTOCENE		CLAY	66.0	25.6	GRAY

MAPID: 05784331000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110075

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670496

DATE COLLECTED: 5 / 22 / 1965

SURFACE ELEVATION (FT.): 722.6 LOGGED (FT.): 91.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8797

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.6	PLEISTOCENE		SOIL	1.0	0.0	
721.6	PLEISTOCENE		CLAY	23.9	1.0	BROWN
697.7	PLEISTOCENE		CLAY	55.5	24.9	GRAY
642.2	CARBONDALE		GRAY SHALE	11.2	80.4	

MAPID: 05784332000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10996

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67024

DATE COLLECTED: 5 / 22 / 1965

SURFACE ELEVATION (FT.): 723.9 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8798

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.9	PLEISTOCENE		SOIL	1.0	0.0	
722.9	PLEISTOCENE		CLAY	24.3	1.0	BROWN
698.6	PLEISTOCENE		CLAY	22.2	25.3	GRAY
676.4	PLEISTOCENE		CLAY	4.6	47.5	BROWN
671.8	PLEISTOCENE		CLAY	12.8	52.1	GRAY
659.0	CARBONDALE		BROWN SHALE	6.8	64.9	
652.2	CARBONDALE		DARK SHALE	4.2	71.7	
648.0	CARBONDALE	ST. DAVID	LIMESTONE	0.3	75.9	
647.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	76.2	
646.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	77.5	
645.8	CARBONDALE	SPRINGFIELD	COAL	4.3	78.1	HARD
641.5	CARBONDALE		GRAY SHALE	2.6	82.4	

MAPID: 05784333000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110319

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67029

DATE COLLECTED: 5 / 24 / 1965

SURFACE ELEVATION (FT.): 723.1 LOGGED (FT.): 81.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8799

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.1	PLEISTOCENE		SOIL	1.0	0.0	
722.1	PLEISTOCENE		CLAY	26.8	1.0	BROWN
695.3	PLEISTOCENE		CLAY	46.7	27.8	GRAY
648.6	CARBONDALE	SPRINGFIELD	COAL	3.1	74.5	SOFT; TOP ERODED
645.5	CARBONDALE		GRAY SHALE	3.9	77.6	

MAPID: 05784334000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110212

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670048

DATE COLLECTED: 5 / 24 / 1965

SURFACE ELEVATION (FT.): 724.7 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8800

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.7	PLEISTOCENE		SOIL	1.0	0.0	
723.7	PLEISTOCENE		CLAY	29.7	1.0	BROWN
694.0	PLEISTOCENE		CLAY	27.1	30.7	GRAY
666.9	CARBONDALE		BROWN SHALE	7.6	57.8	
659.3	CARBONDALE		DARK SHALE	9.9	65.4	
649.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	75.3	
647.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	76.9	
646.7	CARBONDALE	SPRINGFIELD	COAL	3.3	78.0	HARD
643.4	CARBONDALE		GRAY SHALE	3.7	81.3	

MAPID: 05784335000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110557

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670096

DATE COLLECTED: 5 / 24 / 1965

SURFACE ELEVATION (FT.): 722.3 LOGGED (FT.): 81.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8801

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.3	PLEISTOCENE		SOIL	1.0	0.0	
721.3	PLEISTOCENE		CLAY	25.7	1.0	BROWN
695.6	PLEISTOCENE		CLAY	43.9	26.7	GRAY
651.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	70.6	
650.4	CARBONDALE	SPRINGFIELD	COAL	3.9	71.9	HARD
646.5	CARBONDALE		GRAY SHALE	5.8	75.8	

MAPID: 05784336000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110675

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670369

DATE COLLECTED: 5 / 24 / 1965

SURFACE ELEVATION (FT.): 720.9 LOGGED (FT.): 81.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8802

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.9	PLEISTOCENE		SOIL	1.0	0.0	
719.9	PLEISTOCENE		CLAY	18.3	1.0	BROWN
701.6	PLEISTOCENE		CLAY	62.2	19.3	GRAY

MAPID: 05784337000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104207

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676954

DATE COLLECTED: 5 / 24 / 1965

SURFACE ELEVATION (FT.): 721.6 LOGGED (FT.): 91.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8803

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.6	PLEISTOCENE		SOIL	1.0	0.0	
720.6	PLEISTOCENE		CLAY	19.7	1.0	BROWN
700.9	PLEISTOCENE		CLAY	39.7	20.7	GRAY
661.2	PLEISTOCENE		SAND & GRAVEL	6.9	60.4	
654.3	PLEISTOCENE		CLAY	19.5	67.3	
634.8			GRAY SHALE	4.8	86.8	

MAPID: 05784338000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104046

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6772

DATE COLLECTED: 5 / 28 / 1965

SURFACE ELEVATION (FT.): 722.8 LOGGED (FT.): 81.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8804

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.8	PLEISTOCENE		SOIL	1.0	0.0	
721.8	PLEISTOCENE		CLAY	19.6	1.0	BROWN
702.2	PLEISTOCENE		CLAY	47.3	20.6	GRAY
654.9	CARBONDALE		DARK SHALE	5.5	67.9	
649.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	73.4	
648.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	74.6	
647.4	CARBONDALE	SPRINGFIELD	COAL	4.6	75.4	HARD
642.8	CARBONDALE		GRAY SHALE	1.6	80.0	

MAPID: 05784339000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104408

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677195

DATE COLLECTED: 5 / 28 / 1965

SURFACE ELEVATION (FT.): 723.2 LOGGED (FT.): 71.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8805

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.2	PLEISTOCENE		SOIL	1.0	0.0	
722.2	PLEISTOCENE		CLAY	15.6	1.0	
706.6	PLEISTOCENE		SAND	7.1	16.6	
699.5	PLEISTOCENE		CLAY	40.6	23.7	
658.9	CARBONDALE	SPRINGFIELD	COAL	3.3	64.3	TOP ERODED
655.6	CARBONDALE		GRAY SHALE	4.0	67.6	

MAPID: 0578434000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104753

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677243

DATE COLLECTED: 5 / 29 / 1965

SURFACE ELEVATION (FT.): 723.5 LOGGED (FT.): 81.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8807

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.5	PLEISTOCENE		SOIL	1.0	0.0	
722.5	PLEISTOCENE		CLAY	21.2	1.0	BROWN
701.3	PLEISTOCENE		CLAY	22.6	22.2	GRAY
678.7	PLEISTOCENE		SAND	4.9	44.8	
673.8	PLEISTOCENE		CLAY	13.5	49.7	
660.3	CARBONDALE		DARK SHALE	5.6	63.2	
654.7	CARBONDALE	ST. DAVID	LIMESTONE	0.5	68.8	
654.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	69.3	
653.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	70.3	
651.7	CARBONDALE	SPRINGFIELD	COAL	4.1	71.8	HARD
647.6	CARBONDALE		GRAY SHALE	5.6	75.9	

MAPID: 05784341000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105096

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677131

DATE COLLECTED: 5 / 29 / 1965

SURFACE ELEVATION (FT.): 720.8 LOGGED (FT.): 77.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8808

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.8	PLEISTOCENE		SOIL	1.0	0.0	
719.8	PLEISTOCENE		CLAY	21.9	1.0	BROWN
697.9	PLEISTOCENE		CLAY	32.4	22.9	GRAY
665.5	PLEISTOCENE		CLAY	12.3	55.3	BROWN
653.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	67.6	
652.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	68.2	
650.9	CARBONDALE	SPRINGFIELD	COAL	4.3	69.9	HARD
646.6	CARBONDALE		GRAY SHALE	2.8	74.2	

MAPID: 05784342000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105157

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676968

DATE COLLECTED: 5 / 29 / 1965

SURFACE ELEVATION (FT.): 715.6 LOGGED (FT.): 80.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8809

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.6	PLEISTOCENE		SOIL	1.0	0.0	
714.6	PLEISTOCENE		CLAY	15.4	1.0	BROWN
699.2	PLEISTOCENE		CLAY	25.2	16.4	GRAY
674.0	PLEISTOCENE		SAND & GRAVEL	5.6	41.6	
668.4	PLEISTOCENE		CLAY	7.2	47.2	GRAY
661.2	PLEISTOCENE		CLAY	6.5	54.4	BROWN
654.7	PLEISTOCENE		CLAY & GRAVEL	19.6	60.9	

MAPID: 05784343000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105416

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677251

DATE COLLECTED: 5 / 29 / 1965

SURFACE ELEVATION (FT.): 721.5 LOGGED (FT.): 81.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8810

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.5	PLEISTOCENE		SOIL	1.0	0.0	
720.5	PLEISTOCENE		CLAY	18.8	1.0	
701.7	PLEISTOCENE		CLAY & GRAVEL	23.8	19.8	
677.9	PLEISTOCENE		CLAY	15.8	43.6	GRAY
662.1	PLEISTOCENE		CLAY	12.2	59.4	BROWN
649.9	PLEISTOCENE		GRAVEL	8.4	71.6	
641.5			LIMESTONE	0.8	80.0	
640.7			GRAY SHALE	0.8	80.8	

MAPID: 05784344000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105178

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677368

DATE COLLECTED: 5 / 29 / 1965

SURFACE ELEVATION (FT.): 722.8 LOGGED (FT.): 78.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8811

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.8	PLEISTOCENE		SOIL	1.0	0.0	
721.8	PLEISTOCENE		CLAY	18.3	1.0	
703.5	PLEISTOCENE		GRAVEL	1.8	19.3	
701.7	PLEISTOCENE		CLAY	30.6	21.1	GRAY
671.1	PLEISTOCENE		CLAY	11.7	51.7	BROWN
659.4	CARBONDALE		DARK SHALE	6.4	63.4	
653.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	69.8	
651.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	71.1	
650.3	CARBONDALE	SPRINGFIELD	COAL	4.1	72.5	HARD
646.2	CARBONDALE		GRAY SHALE	1.8	76.6	

MAPID: 05784345000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105437

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677535

DATE COLLECTED: 5 / 29 / 1965

SURFACE ELEVATION (FT.): 718.4 LOGGED (FT.): 76.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8812

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.4	PLEISTOCENE		SOIL	1.0	0.0	
717.4	PLEISTOCENE		CLAY	15.1	1.0	BROWN
702.3	PLEISTOCENE		CLAY	31.5	16.1	GRAY
670.8	PLEISTOCENE		CLAY	18.4	47.6	BROWN
652.4	PLEISTOCENE		CLAY	5.4	66.0	GRAY
647.0	CARBONDALE	SPRINGFIELD	COAL	0.5	71.4	SOFT; TOP ERODED
646.5	CARBONDALE		GRAY SHALE	4.5	71.9	

MAPID: 05784346000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105156

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67768

DATE COLLECTED: 5 / 31 / 1965

SURFACE ELEVATION (FT.): 722.5 LOGGED (FT.): 81.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8813

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.5	PLEISTOCENE		SOIL	1.0	0.0	
721.5	PLEISTOCENE		CLAY	23.4	1.0	BROWN
698.1	PLEISTOCENE		CLAY	28.2	24.4	GRAY
669.9	PLEISTOCENE		CLAY	5.6	52.6	BROWN
664.3	CARBONDALE		BROWN SHALE	5.4	58.2	
658.9	CARBONDALE		DARK SHALE	5.8	63.6	
653.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	69.4	
651.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.1	71.1	
649.3	CARBONDALE	SPRINGFIELD	COAL WITH SHALE	2.9	73.2	
646.4	CARBONDALE		GRAY SHALE	5.4	76.1	

MAPID: 05784347000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105472

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6778

DATE COLLECTED: 5 / 31 / 1965

SURFACE ELEVATION (FT.): 722.2 LOGGED (FT.): 76.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8814

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.2	PLEISTOCENE		SOIL	1.0	0.0	
721.2	PLEISTOCENE		CLAY	28.8	1.0	BROWN
692.4	PLEISTOCENE		CLAY	16.5	29.8	GRAY
675.9	PLEISTOCENE		CLAY	22.0	46.3	BROWN
653.9	PLEISTOCENE		CLAY	1.1	68.3	BLACK
652.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	69.4	
651.4	CARBONDALE	SPRINGFIELD	COAL	4.1	70.8	HARD
647.3	CARBONDALE		GRAY SHALE	1.1	74.9	

MAPID: 05784348000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105893

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6775

DATE COLLECTED: 5 / 31 / 1965

SURFACE ELEVATION (FT.): 710.6 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8815

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
710.6	PLEISTOCENE		SOIL	1.0	0.0	
709.6	PLEISTOCENE		CLAY	10.3	1.0	BROWN
699.3	PLEISTOCENE		CLAY	35.5	11.3	GRAY
663.8	CARBONDALE		BROWN SHALE	4.1	46.8	
659.7	CARBONDALE		DARK SHALE	5.9	50.9	
653.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	56.8	
652.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	58.1	
651.1	CARBONDALE	SPRINGFIELD	COAL	3.9	59.5	HARD
647.2	CARBONDALE		GRAY SHALE	1.6	63.4	

MAPID: 05784349000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105898

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677227

DATE COLLECTED: 5 / 31 / 1965

SURFACE ELEVATION (FT.): 715.0 LOGGED (FT.): 71.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8816

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.0	PLEISTOCENE		SOIL	1.0	0.0	
714.0	PLEISTOCENE		CLAY	18.6	1.0	BROWN
695.4	PLEISTOCENE		CLAY	39.7	19.6	GRAY
655.7	CARBONDALE		BROWN SHALE	1.6	59.3	
654.1	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	60.9	
652.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	62.9	
651.0	CARBONDALE	SPRINGFIELD	COAL	3.1	64.0	HARD
647.9	CARBONDALE		GRAY SHALE	4.4	67.1	

MAPID: 0578435000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106078

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677066

DATE COLLECTED: 5 / 31 / 1965

SURFACE ELEVATION (FT.): 705.0 LOGGED (FT.): 71.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8817

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.0	PLEISTOCENE		SOIL	1.0	0.0	
704.0	PLEISTOCENE		CLAY	22.4	1.0	BROWN
681.6	PLEISTOCENE		CLAY	35.9	23.4	GRAY
645.7	CARBONDALE		DARK SHALE	3.8	59.3	
641.9	CARBONDALE		LIMESTONE	1.8	63.1	
640.1	CARBONDALE		GRAY SHALE	6.6	64.9	

MAPID: 05784351000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108024

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671334

DATE COLLECTED: 6 / 12 / 1965

SURFACE ELEVATION (FT.): 712.1 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8818

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.1	PLEISTOCENE		SOIL	1.0	0.0	
711.1	PLEISTOCENE		CLAY	16.6	1.0	
694.5	PLEISTOCENE		CLAY, SAND & GRAVEL	30.3	17.6	
664.2	PLEISTOCENE		CLAY	37.1	47.9	

MAPID: 05784352000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107701

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671255

DATE COLLECTED: 6 / 12 / 1965

SURFACE ELEVATION (FT.): 718.5 LOGGED (FT.): 72.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8819

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.5	PLEISTOCENE		SOIL	1.0	0.0	
717.5	PLEISTOCENE		CLAY	13.7	1.0	
703.8	PLEISTOCENE		SAND	16.7	14.7	
687.1	PLEISTOCENE		CLAY, SAND & GRAVEL	34.8	31.4	
652.3	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.7	66.2	TOP ERODED
648.6	CARBONDALE		UNDERCLAY	2.1	69.9	

MAPID: 05784353000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107707

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671484

DATE COLLECTED: 6 / 12 / 1965

SURFACE ELEVATION (FT.): 721.5 LOGGED (FT.): 71.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8820

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.5	PLEISTOCENE		SOIL	1.0	0.0	
720.5	PLEISTOCENE		CLAY	23.8	1.0	
696.7	PLEISTOCENE		CLAY, SAND & GRAVEL	40.4	24.8	
656.3	CARBONDALE	SPRINGFIELD	COAL	3.7	65.2	SOFT; TOP ERODED
652.6	CARBONDALE		UNDERCLAY	2.1	68.9	

MAPID: 05784354000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107466

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67135

DATE COLLECTED: 6 / 12 / 1965

SURFACE ELEVATION (FT.): 722.4 LOGGED (FT.): 76.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8821

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
722.4	PLEISTOCENE		SOIL	1.0	0.0
721.4	PLEISTOCENE		CLAY	23.8	1.0
697.6	PLEISTOCENE		CLAY, SAND & GRAVEL	41.7	24.8
655.9	CARBONDALE	TURNER MINE	DARK SHALE	1.4	66.5
654.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.1	67.9
652.4	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.5	70.0
647.9	CARBONDALE		UNDERCLAY	2.1	74.5

MAPID: 05784355000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107101

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671479

DATE COLLECTED: 6 / 14 / 1965

SURFACE ELEVATION (FT.): 721.0 LOGGED (FT.): 77.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8822

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
721.0	PLEISTOCENE		SOIL	1.0	0.0
720.0	PLEISTOCENE		CLAY	16.8	1.0
703.2	PLEISTOCENE		CLAY, SAND & GRAVEL	40.1	17.8
663.1	CARBONDALE		DARK SHALE	11.1	57.9
652.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	69.0
651.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.2	69.5
649.3	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.3	71.7
645.0	CARBONDALE		UNDERCLAY	1.9	76.0

MAPID: 05784356000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10784 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671798 DATE COLLECTED: 6 / 14 / 1965

SURFACE ELEVATION (FT.): 714.8 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8823 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.8	PLEISTOCENE		SOIL	1.0	0.0	
713.8	PLEISTOCENE		SANDY CLAY	23.3	1.0	YELLOW
690.5	PLEISTOCENE		SANDY CLAY	27.6	24.3	GRAY
662.9	PLEISTOCENE		CLAY & GRAVEL	33.1	51.9	

MAPID: 05784357000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10755 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671827 DATE COLLECTED: 6 / 14 / 1965

SURFACE ELEVATION (FT.): 718.9 LOGGED (FT.): 75.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8824 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.9	PLEISTOCENE		SOIL	1.0	0.0	
717.9	PLEISTOCENE		SANDY CLAY	26.8	1.0	
691.1	PLEISTOCENE		CLAY, SAND & GRAVEL	41.1	27.8	
650.0	CARBONDALE	SPRINGFIELD	COAL	3.8	68.9	SOFT; TOP ERODED
646.2	CARBONDALE		UNDERCLAY	2.4	72.7	

MAPID: 05784358000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107122

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671727

DATE COLLECTED: 6 / 14 / 1965

SURFACE ELEVATION (FT.): 722.7 LOGGED (FT.): 78.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8825

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
722.7	PLEISTOCENE		SOIL	1.0	0.0
721.7	PLEISTOCENE		CLAY	26.4	1.0
695.3	PLEISTOCENE		CLAY, SAND & GRAVEL	37.3	27.4
658.0	CARBONDALE		GRAY SHALE	5.3	64.7
652.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.1	70.0
650.6	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.4	72.1
646.2	CARBONDALE		UNDERCLAY	1.9	76.5

MAPID: 05784359000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107643

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672026

DATE COLLECTED: 6 / 15 / 1965

SURFACE ELEVATION (FT.): 721.8 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8826

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
721.8	PLEISTOCENE		SOIL	1.0	0.0
720.8	PLEISTOCENE		CLAY	20.7	1.0
700.1	PLEISTOCENE		CLAY, SAND & GRAVEL	36.2	21.7
663.9	PLEISTOCENE		SAND/CLAY	27.1	57.9

MAPID: 05784360000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107266

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672025

DATE COLLECTED: 6 / 15 / 1965

SURFACE ELEVATION (FT.): 723.3 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8827

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
723.3	PLEISTOCENE		SOIL	1.0	0.0
722.3	PLEISTOCENE		SANDY CLAY	30.3	1.0
692.0	PLEISTOCENE		CLAY, SAND & GRAVEL	53.7	31.3

MAPID: 05784361000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107016

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672015

DATE COLLECTED: 6 / 15 / 1965

SURFACE ELEVATION (FT.): 724.5 LOGGED (FT.): 78.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8828

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
724.5	PLEISTOCENE		SOIL	1.0	0.0
723.5	PLEISTOCENE		CLAY	30.7	1.0
692.8	PLEISTOCENE		CLAY, SAND & GRAVEL	38.3	31.7
654.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.2	70.0
652.3	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.9	72.2
648.4	CARBONDALE		UNDERCLAY	1.9	76.1

MAPID: 05784362000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107036

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672252

DATE COLLECTED: 6 / 15 / 1965

SURFACE ELEVATION (FT.): 724.5 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8829

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
724.5	PLEISTOCENE		SOIL	1.0	0.0
723.5	PLEISTOCENE		SANDY CLAY	18.8	1.0
704.7	PLEISTOCENE		SAND & GRAVEL	18.1	19.8
686.6	PLEISTOCENE		SANDY CLAY	30.0	37.9
656.6	PLEISTOCENE		SAND & GRAVEL	17.1	67.9

MAPID: 05784368000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110866

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673457

DATE COLLECTED: 3 / 22 / 1937

SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 202

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.0	PLEISTOCENE		CLAY	21.5	0.0	
678.5	PLEISTOCENE		CLAY & GRAVEL	27.5	21.5	
651.0	PLEISTOCENE		CLAY	15.2	49.0	
635.9	CARBONDALE		GRAY SHALE	7.2	64.1	
628.6	CARBONDALE		GRAY SHALE	3.6	71.4	

MAPID: 05784370000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101471

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672722

DATE COLLECTED:

SURFACE ELEVATION (FT.): 731.0 LOGGED (FT.): 91.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT2

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.0			UNKNOWN	87.6	0.0	
643.4	CARBONDALE	SPRINGFIELD	COAL	3.6	87.6	

MAPID: 05784371000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108569

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671502

DATE COLLECTED:

SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT3

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.0			UNKNOWN	90.0	0.0	NO COAL

MAPID: 05784372000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.1107 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673618 DATE COLLECTED:

SURFACE ELEVATION (FT.): 702.0 LOGGED (FT.): 65.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT4 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.0			UNKNOWN	64.4	0.0	
637.6	CARBONDALE	SPRINGFIELD	COAL	1.2	64.4	SOFT

MAPID: 05784373000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106059 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673245 DATE COLLECTED:

SURFACE ELEVATION (FT.): 720.0 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT5 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.0			UNKNOWN	100.0	0.0	NO COAL

MAPID: 05784374000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103853 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671283 DATE COLLECTED:

SURFACE ELEVATION (FT.): 731.0 LOGGED (FT.): 91.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT8 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.0			UNKNOWN	88.0	0.0	
643.0	CARBONDALE	SPRINGFIELD	COAL	3.1	88.0	

MAPID: 05784375000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106144

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67136

DATE COLLECTED:

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 80.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT10

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.0			UNKNOWN	75.9	0.0	
649.1	CARBONDALE	SPRINGFIELD	COAL	4.5	75.9	

MAPID: 05784376000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103952

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673032

DATE COLLECTED:

SURFACE ELEVATION (FT.): 729.0 LOGGED (FT.): 88.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT11

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.0			UNKNOWN	83.8	0.0	
645.2	CARBONDALE	SPRINGFIELD	COAL	4.4	83.8	

MAPID: 05784377000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106356

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67657

DATE COLLECTED:

SURFACE ELEVATION (FT.): 716.0 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT14

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.0			UNKNOWN	110.0	0.0	NO COAL

MAPID: 05784378000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 13 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.110811 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.671383 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 719.0 **LOGGED (FT.):** 110.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST TT15 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.0			UNKNOWN	110.0	0.0	NO COAL

MAPID: 05784381000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 13 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.102988 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.674331 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 729.0 **LOGGED (FT.):** 88.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST TT23 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.0			UNKNOWN	84.1	0.0	
644.9	CARBONDALE	SPRINGFIELD	COAL	4.1	84.1	

MAPID: 05784383000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 13 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.106714 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.672279 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 727.0 **LOGGED (FT.):** 87.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST TT28 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.0			UNKNOWN	87.0	0.0	NO COAL; SAND

MAPID: 05784384000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104167

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674007

DATE COLLECTED:

SURFACE ELEVATION (FT.): 729.0 LOGGED (FT.): 74.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT29

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.0			UNKNOWN	71.0	0.0	
658.0	CARBONDALE	SPRINGFIELD	COAL	3.8	71.0	

MAPID: 05784386000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110763

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672523

DATE COLLECTED:

SURFACE ELEVATION (FT.): 720.0 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT31

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.0			UNKNOWN	110.0	0.0	NO COAL

MAPID: 05784387000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107645

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670652

DATE COLLECTED:

SURFACE ELEVATION (FT.): 715.0 LOGGED (FT.): 68.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT32

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.0			UNKNOWN	66.2	0.0	
648.8	CARBONDALE	SPRINGFIELD	COAL	2.2	66.2	SOFT

MAPID: 05784388000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112563

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673275

DATE COLLECTED: 1 / 19 / 1965

SURFACE ELEVATION (FT.): 681.5 LOGGED (FT.): 34.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8657

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.5	PLEISTOCENE		SOIL	1.0	0.0	
680.5	PLEISTOCENE		SANDY CLAY	10.0	1.0	YELLOW
670.5	PLEISTOCENE		SANDY CLAY	8.6	11.0	
661.9	CARBONDALE		DARK SHALE	5.4	19.6	
656.5	CARBONDALE	ST. DAVID	LIMESTONE	0.6	25.0	
655.9	CARBONDALE	TURNER MINE	BLACK SHALE	2.4	25.6	
653.5	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.1	28.0	
649.4	CARBONDALE		UNDERCLAY	1.9	32.1	

MAPID: 05784588000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112247

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67318

DATE COLLECTED: 1 / 19 / 1965

SURFACE ELEVATION (FT.): 684.0 LOGGED (FT.): 36.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8656

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.0	PLEISTOCENE		SOIL	1.0	0.0	
683.0	PLEISTOCENE		SANDY CLAY	15.7	1.0	YELLOW
667.3	PLEISTOCENE		SANDY CLAY	15.2	16.7	
652.1	CARBONDALE	SPRINGFIELD	COAL	2.9	31.9	TOP ERODED
649.2	CARBONDALE		UNDERCLAY	2.1	34.8	

MAPID: 0578495000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101639

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669598

DATE COLLECTED: 5 / 16 / 1975

SURFACE ELEVATION (FT.): 733.0 LOGGED (FT.): 101.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23147

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
733.0	PLEISTOCENE		SOIL	1.0	0.0
732.0	PLEISTOCENE		CLAY, SAND & GRAVEL	24.0	1.0
708.0	PLEISTOCENE		CLAY & GRAVEL	58.0	25.0
650.0	CARBONDALE		DARK SHALE	9.0	83.0
641.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	92.0
640.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	92.4
639.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	93.7
638.6	CARBONDALE	SPRINGFIELD	COAL	4.3	94.4
634.3	CARBONDALE		UNDERCLAY	2.3	98.7

MAPID: 05784951000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103861

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66965

DATE COLLECTED: 5 / 16 / 1975

SURFACE ELEVATION (FT.): 734.0 LOGGED (FT.): 96.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23148

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
734.0	PLEISTOCENE		SOIL	1.0	0.0
733.0	PLEISTOCENE		CLAY	24.0	1.0
709.0	CARBONDALE		GRAY SHALE	53.0	25.0
656.0	CARBONDALE		LIMESTONE	0.4	78.0
655.6	CARBONDALE		DARK SHALE	9.6	78.4
646.0	CARBONDALE	ST. DAVID	LIMESTONE	0.3	88.0
645.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	88.3
644.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	89.3
644.0	CARBONDALE	SPRINGFIELD	COAL	3.8	90.0
640.2	CARBONDALE		UNDERCLAY	2.2	93.8

MAPID: 05784952000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106223

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669682

DATE COLLECTED: 5 / 16 / 1975

SURFACE ELEVATION (FT.): 726.9 LOGGED (FT.): 89.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23149

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.9	PLEISTOCENE		SOIL	1.0	0.0	
725.9	PLEISTOCENE		CLAY	27.0	1.0	YELLOW
698.9	PLEISTOCENE		CLAY	2.0	28.0	GRAY
696.9	CARBONDALE		SANDY SHALE	44.0	30.0	
652.9	CARBONDALE		DARK SHALE	5.7	74.0	
647.2	CARBONDALE	ST. DAVID	LIMESTONE	0.6	79.7	
646.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	80.3	
645.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	81.7	
644.4	CARBONDALE	SPRINGFIELD	COAL	4.0	82.5	
640.4	CARBONDALE		UNDERCLAY	2.5	86.5	

MAPID: 05784953000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108586

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669714

DATE COLLECTED: 5 / 19 / 1975

SURFACE ELEVATION (FT.): 724.3 LOGGED (FT.): 91.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23150

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.3	PLEISTOCENE		SOIL	1.0	0.0	
723.3	PLEISTOCENE		CLAY	45.0	1.0	
678.3	CARBONDALE		GRAY SHALE	27.0	46.0	
651.3	CARBONDALE		DARK SHALE	9.0	73.0	
642.3	CARBONDALE	ST. DAVID	LIMESTONE	0.4	82.0	
641.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	82.4	
640.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	84.1	
639.3	CARBONDALE	SPRINGFIELD	COAL	4.0	85.0	
635.3	CARBONDALE		UNDERCLAY	2.0	89.0	

MAPID: 05785093000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106693

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669975

DATE COLLECTED:

SURFACE ELEVATION (FT.): 723.0 LOGGED (FT.): 83.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT1

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.0			UNKNOWN	79.0	0.0	
644.0	CARBONDALE	SPRINGFIELD	COAL	4.9	79.0	

MAPID: 05785094000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10158

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.663231

DATE COLLECTED:

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 86.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT21

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.0			UNKNOWN	82.3	0.0	
642.7	CARBONDALE	SPRINGFIELD	COAL	3.9	82.3	

MAPID: 05785109000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110935

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670246

DATE COLLECTED: 12 / 29 / 1964

SURFACE ELEVATION (FT.): 717.9 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8645

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.9	PLEISTOCENE		SOIL	1.0	0.0	
716.9	PLEISTOCENE		SANDY CLAY	21.3	1.0	
695.6	PLEISTOCENE		SANDY CLAY	52.7	22.3	GRAY

MAPID: 05785110000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110977

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670041

DATE COLLECTED: 1 / 2 / 1965

SURFACE ELEVATION (FT.): 719.1 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8646

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.1	PLEISTOCENE		SOIL	1.0	0.0	
718.1	PLEISTOCENE		SANDY CLAY	25.7	1.0	YELLOW
692.4	PLEISTOCENE		SANDY CLAY	40.0	26.7	GRAY
652.4	CARBONDALE	SPRINGFIELD	COAL	0.5	66.7	DIRTY HARD;TOP ERODED
651.9	CARBONDALE		UNDERCLAY	3.6	67.2	
648.3	CARBONDALE		GRAY SHALE	2.1	70.8	
646.2	CARBONDALE		UNKNOWN	2.1	72.9	

MAPID: 05785202000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11213

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669804

DATE COLLECTED: 11 / 27 / 1965

SURFACE ELEVATION (FT.): 725.5 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8662

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.5	PLEISTOCENE		SOIL	1.0	0.0	
724.5	PLEISTOCENE		SANDY CLAY	32.7	1.0	YELLOW
691.8	PLEISTOCENE		SANDY CLAY	51.3	33.7	GRAY

MAPID: 05785203000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.1135

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669783

DATE COLLECTED: 2 / 1 / 1965

SURFACE ELEVATION (FT.): 721.5 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8667

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.5	PLEISTOCENE		SOIL	1.0	0.0	
720.5	PLEISTOCENE		SANDY CLAY	20.7	1.0	
699.8	PLEISTOCENE		SAND & GRAVEL	12.2	21.7	
687.6	PLEISTOCENE		SANDY CLAY	51.1	33.9	

MAPID: 05786348000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10564 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.677082 DATE COLLECTED: 6 / 27 / 1962
SURFACE ELEVATION (FT.): 675.7 LOGGED (FT.): 38.5 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMEAST 7628 WELL TYPE: Coal Test
COMMENT: LOCATIONS DIG. FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.7	PLEISTOCENE		CLAY & GRAVEL	25.9	0.0	YELLOW
649.8	PLEISTOCENE		CLAY & GRAVEL	3.0	25.9	GRAY
646.8	CARBONDALE		SANDY SHALE	1.2	28.9	
645.6	CARBONDALE	ST. DAVID	LIMESTONE	0.4	30.1	
645.2	CARBONDALE	TURNER MINE	DARK SHALE	1.0	30.5	
644.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	31.5	
642.5	CARBONDALE	SPRINGFIELD	COAL	3.8	33.2	
638.7	CARBONDALE		UNDERCLAY	1.5	37.0	

MAPID: 05786349000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 13 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10461 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676993 DATE COLLECTED: 5 / 28 / 1965
SURFACE ELEVATION (FT.): 721.1 LOGGED (FT.): 91.7 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMEAST 8806 WELL TYPE: Coal Test
COMMENT: LOCATIONS DIG.FROM CO MAP 30

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.1	PLEISTOCENE		SOIL	1.0	0.0	
720.1	PLEISTOCENE		CLAY	21.7	1.0	BROWN
698.4	PLEISTOCENE		CLAY	62.9	22.7	GRAY
635.5			GRAY SHALE	6.1	85.6	

MAPID: 05784007000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121568 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.680984 DATE COLLECTED: 1 / 19 / 1963
SURFACE ELEVATION (FT.): 674.5 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 8134 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.5	PLEISTOCENE		CLAY	20.4	0.0	
654.1	PLEISTOCENE		CLAY & GRAVEL	26.8	20.4	
627.3	CARBONDALE		GRAY SHALE	2.8	47.2	

MAPID: 05784122000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 14 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.12633 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.673344 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 703.0 **LOGGED (FT.):** 52.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST TT28 **WELL TYPE:** Coal Test
COMMENT: LOCATIONS & DATA FROM CO MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.0			UNKNOWN	52.0	0.0	NO COAL

MAPID: 05784126000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 14 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.126113 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.674165 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 700.0 **LOGGED (FT.):** 70.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST TT20 **WELL TYPE:** Coal Test
COMMENT: LOCATIONS & DATA FROM CO MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.0			UNKNOWN	70.0	0.0	NO COAL

MAPID: 05784127000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 14 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.124961 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.674298 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 703.0 **LOGGED (FT.):** 70.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST TT19 **WELL TYPE:** Coal Test
COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.0			UNKNOWN	70.0	0.0	NO COAL

MAPID: 05784128000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 14 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.122704 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.675118 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 660.0 **LOGGED (FT.):** 40.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST TT24 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNKNOWN	40.0	0.0	NO COAL

MAPID: 0578413000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.126281 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675938 DATE COLLECTED:

SURFACE ELEVATION (FT.): 705.0 LOGGED (FT.): 64.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT57 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.0			UNKNOWN	60.6	0.0	
644.4	CARBONDALE	SPRINGFIELD	COAL	3.9	60.6	

MAPID: 05784131000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120597 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676941 DATE COLLECTED:

SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT10 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.0			UNKNOWN	87.0	0.0	NO COAL

MAPID: 05784132000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122864 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678748 DATE COLLECTED:

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 70.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT25A WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 9

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0			UNKNOWN	70.3	0.0	
599.7	CARBONDALE	SPRINGFIELD	COAL	0.4	70.3	

MAPID: 05785489000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 14 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.139105 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.669687 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 669.0 **LOGGED (FT.):** 45.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 186 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.0			UNKNOWN	45.0	0.0	NO COAL

MAPID: 05785490000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 14 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.134747 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.669733 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 702.0 **LOGGED (FT.):** 61.1 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 187 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.0			UNKNOWN	61.1	0.0	NO COAL

MAPID: 05791467000C **VERSION:** 1 **PROJECT:** NCRDS 00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 14 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.129718 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.676957 **DATE COLLECTED:** 6 / 26 / 1948
SURFACE ELEVATION (FT.): 648.3 **LOGGED (FT.):** 23.3 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 3991 **WELL TYPE:** Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.3	PLEISTOCENE		SOIL	1.0	0.0	
647.3	PLEISTOCENE			14.7	1.0	
632.6	PLEISTOCENE		CLAY	2.6	15.7	
630.0	CARBONDALE	SPRINGFIELD	COAL	3.7	18.3	TOP ERODED
626.3	CARBONDALE		UNDERCLAY	1.3	22.0	

MAPID: 05791468000C **VERSION:** 1 **PROJECT:** NCRDS 00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 14 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.129718 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.676957 **DATE COLLECTED:** 6 / 23 / 1948
SURFACE ELEVATION (FT.): 630.2 **LOGGED (FT.):** 15.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 3992 **WELL TYPE:** Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.2	PLEISTOCENE		SOIL	1.0	0.0	
629.2	PLEISTOCENE		CLAY	14.7	1.0	

MAPID: 05791469000C **VERSION:** 1 **PROJECT:** NCRDS 00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 14 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.129718 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.676957 **DATE COLLECTED:** 6 / 23 / 1948
SURFACE ELEVATION (FT.): 632.7 **LOGGED (FT.):** 15.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 3993 **WELL TYPE:** Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
632.7	PLEISTOCENE		SOIL	1.0	0.0	
631.7	PLEISTOCENE			14.7	1.0	

MAPID: 05791470000C **VERSION:** 1 **PROJECT:** NCRDS 00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 14 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.129718 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.676957 **DATE COLLECTED:** 6 / 23 / 1948
SURFACE ELEVATION (FT.): 647.3 **LOGGED (FT.):** 20.4 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 3994 **WELL TYPE:** Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
647.3	PLEISTOCENE		SOIL	1.0	0.0	
646.3	PLEISTOCENE		CLAY	14.7	1.0	
631.6	CARBONDALE	SPRINGFIELD	COAL	0.4	15.7	SOFT TOP ERODED
631.2	CARBONDALE	SPRINGFIELD	COAL	3.3	16.1	
627.9	CARBONDALE		UNDERCLAY	1.0	19.4	

MAPID: 05791471000C **VERSION:** 1 **PROJECT:** NCRDS 00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 14 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.129718 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.676957 **DATE COLLECTED:** 6 / 23 / 1948
SURFACE ELEVATION (FT.): 631.9 **LOGGED (FT.):** 15.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 3995 **WELL TYPE:** Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
631.9	PLEISTOCENE		SOIL	1.0	0.0	
630.9	PLEISTOCENE			14.7	1.0	

MAPID: 05791472000C **VERSION:** 1 **PROJECT:** NCRDS 00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 14 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.129718 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.676957 **DATE COLLECTED:** 6 / 24 / 1948
SURFACE ELEVATION (FT.): 652.6 **LOGGED (FT.):** 25.3 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 3996 **WELL TYPE:** Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
652.6	PLEISTOCENE		SOIL	1.0	0.0	
651.6	PLEISTOCENE		SAND & GRAVEL	24.3	1.0	

MAPID: 05791473000C **VERSION:** 1 **PROJECT:** NCRDS 00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 14 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.129718 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.676957 **DATE COLLECTED:** 6 / 24 / 1948
SURFACE ELEVATION (FT.): 648.1 **LOGGED (FT.):** 15.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 3998 **WELL TYPE:** Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.1	PLEISTOCENE		SOIL	1.0	0.0	
647.1	PLEISTOCENE			14.7	1.0	

MAPID: 05791474000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 24 / 1948
SURFACE ELEVATION (FT.): 640.4 LOGGED (FT.): 15.7 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 4003 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
640.4	PLEISTOCENE		SOIL	1.0	0.0
639.4	PLEISTOCENE			14.7	1.0

MAPID: 05791475000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 26 / 1948
SURFACE ELEVATION (FT.): 661.7 LOGGED (FT.): 30.4 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 4009 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
661.7	PLEISTOCENE		SOIL	1.0	0.0
660.7	PLEISTOCENE		CLAY	13.5	1.0
647.2	PLEISTOCENE		SAND & GRAVEL	6.8	14.5
640.4	CARBONDALE		GRAY SHALE	3.3	21.3
637.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	24.6
635.9	CARBONDALE	SPRINGFIELD		3.6	25.8
632.3	CARBONDALE		UNDERCLAY	1.0	29.4

MAPID: 05791476000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 27 / 1948
SURFACE ELEVATION (FT.): 660.8 LOGGED (FT.): 27.3 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 4010 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
660.8	PLEISTOCENE		SOIL	1.0	0.0
659.8	PLEISTOCENE		CLAY	13.5	1.0
646.3	PLEISTOCENE		SAND & GRAVEL	6.8	14.5
639.5	CARBONDALE	SPRINGFIELD	COAL	1.6	21.3
637.9	CARBONDALE		UNDERCLAY	4.4	22.9

SOFT; TOP
ERODED

MAPID: 05791477000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 27 / 1948
SURFACE ELEVATION (FT.): 652.1 LOGGED (FT.): 25.3 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 4011 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
652.1	PLEISTOCENE		SOIL	1.0	0.0
651.1	PLEISTOCENE		CLAY	16.8	1.0
634.3	PLEISTOCENE		SAND & GRAVEL	7.5	17.8

MAPID: 05791478000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 27 / 1948
SURFACE ELEVATION (FT.): 660.1 LOGGED (FT.): 29.9 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 4012 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
660.1	PLEISTOCENE		SOIL	1.0	0.0
659.1	PLEISTOCENE		CLAY	16.8	1.0
642.3	PLEISTOCENE		SAND & GRAVEL	6.0	17.8
636.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	23.8
634.8	CARBONDALE	SPRINGFIELD	COAL	2.7	25.3
632.1	CARBONDALE		UNDERCLAY	1.9	28.0

MAPID: 05791479000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 27 / 1948
SURFACE ELEVATION (FT.): 661.1 LOGGED (FT.): 25.3 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 4013 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
661.1	PLEISTOCENE		SOIL	1.0	0.0
660.1	PLEISTOCENE		CLAY	17.3	1.0
642.8	PLEISTOCENE		SAND & GRAVEL	7.0	18.3

MAPID: 05791488000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 10 / 1959

SURFACE ELEVATION (FT.): 654.4 LOGGED (FT.): 50.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6607 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.4	PLEISTOCENE		SOIL	1.0	0.0	
653.4	PLEISTOCENE		CLAY & GRAVEL	16.3	1.0	
637.1	PLEISTOCENE			5.2	17.3	
631.9	PLEISTOCENE			0.7	22.5	
631.2	PLEISTOCENE		SAND & GRAVEL	13.6	23.2	
617.6	PLEISTOCENE			0.8	36.8	
616.8	PLEISTOCENE		UNCLASSIFIED	2.8	37.6	COAL TRACES
614.0	PLEISTOCENE		CLAY, SAND & GRAVEL	10.0	40.4	

MAPID: 05791489000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 10 / 1959

SURFACE ELEVATION (FT.): 660.9 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6608 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.9	PLEISTOCENE		SOIL	1.0	0.0	
659.9	PLEISTOCENE		CLAY	19.0	1.0	
640.9	PLEISTOCENE		SAND	25.2	20.0	
615.7	PLEISTOCENE		CLAY	1.5	45.2	AND BOULDERS
614.2	PLEISTOCENE			3.3	46.7	
610.9			GRAY SANDSTONE	10.0	50.0	

MAPID: 0579149000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 10 / 1959

SURFACE ELEVATION (FT.): 661.1 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6609 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.1	PLEISTOCENE		SOIL	1.0	0.0	
660.1	PLEISTOCENE		CLAY	16.5	1.0	YEL
643.6	PLEISTOCENE		CLAY & GRAVEL	3.3	17.5	YEL
640.3	PLEISTOCENE		CLAY & GRAVEL	4.2	20.8	GRAY
636.1	PLEISTOCENE		SAND & GRAVEL	2.0	25.0	
634.1	PLEISTOCENE		CLAY	2.0	27.0	
632.1	CARBONDALE		GRAY SHALE	2.6	29.0	
629.5	CARBONDALE		LIMESTONE	1.6	31.6	
627.9	CARBONDALE		GRAY SHALE	10.0	33.2	
617.9	CARBONDALE		LIMESTONE	0.5	43.2	
617.4	CARBONDALE		CALCAREOUS SHALE	16.3	43.7	

MAPID: 05791491000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 11 / 1959

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6610 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0	PLEISTOCENE		SOIL	1.0	0.0	
664.0	PLEISTOCENE		CLAY	16.8	1.0	
647.2	PLEISTOCENE		CLAY, SAND & GRAVEL	7.6	17.8	
639.6	PLEISTOCENE		CLAY & GRAVEL	3.8	25.4	
635.8	CARBONDALE		SANDY SHALE	3.6	29.2	
632.2	CARBONDALE		DARK SHALE	2.2	32.8	
630.0	CARBONDALE		LIMESTONE	1.8	35.0	
628.2	CARBONDALE		GRAY SHALE	9.7	36.8	
618.5	CARBONDALE		DARK SHALE	0.5	46.5	
618.0	CARBONDALE		GRAY SHALE	3.0	47.0	

MAPID: 05791492000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 11 / 1959

SURFACE ELEVATION (FT.): 671.0 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6611 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.0	PLEISTOCENE		SOIL	1.0	0.0	
670.0	PLEISTOCENE		CLAY	27.1	1.0	
642.9	PLEISTOCENE		CLAY, SAND & GRAVEL	5.2	28.1	
637.7	PLEISTOCENE		CLAY	0.6	33.3	BOULD
637.1	PLEISTOCENE		CLAY & GRAVEL	1.2	33.9	
635.9	CARBONDALE		LIMESTONE	0.3	35.1	
635.6	CARBONDALE		DARK SHALE	6.2	35.4	
629.4	CARBONDALE		GRAY SHALE	0.7	41.6	
628.7	CARBONDALE		LIMESTONE	1.5	42.3	
627.2	CARBONDALE		GRAY SHALE	16.2	43.8	

MAPID: 05791493000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 11 / 1959

SURFACE ELEVATION (FT.): 674.8 LOGGED (FT.): 44.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6612 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.8	PLEISTOCENE		SOIL	1.0	0.0	
673.8	PLEISTOCENE		SAND/CLAY	21.8	1.0	
652.0	PLEISTOCENE		CLAY & GRAVEL	12.9	22.8	
639.1	CARBONDALE	ST. DAVID	LIMESTONE	0.3	35.7	
638.8	CARBONDALE	TURNER MINE	DARK SHALE	1.4	36.0	
637.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	37.4	
636.2	CARBONDALE	SPRINGFIELD		3.8	38.6	
632.4	CARBONDALE		UNDERCLAY	1.6	42.4	

MAPID: 05791494000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 12 / 1959

SURFACE ELEVATION (FT.): 674.9 LOGGED (FT.): 44.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6613

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.9	PLEISTOCENE		SOIL	1.0	0.0	
673.9	PLEISTOCENE		CLAY	18.9	1.0	
655.0	PLEISTOCENE		CLAY	0.4	19.9	BOULD
654.6	PLEISTOCENE		CLAY	4.3	20.3	AND BOULDERS
650.3	PLEISTOCENE		CLAY	0.7	24.6	BOULD
649.6	PLEISTOCENE		CLAY & GRAVEL	3.6	25.3	
646.0	PLEISTOCENE		CLAY	6.3	28.9	
639.7	CARBONDALE	ST. DAVID	LIMESTONE	0.7	35.2	
639.0	CARBONDALE	TURNER MINE	DARK SHALE	1.7	35.9	
637.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	37.6	
636.0	CARBONDALE	SPRINGFIELD	COAL	3.8	38.9	SOFT
632.2	CARBONDALE		UNDERCLAY	1.3	42.7	

MAPID: 05791495000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 12 / 1959

SURFACE ELEVATION (FT.): 673.3 LOGGED (FT.): 46.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6614

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
673.3	PLEISTOCENE		SOIL	1.0	0.0	
672.3	PLEISTOCENE		CLAY	22.0	1.0	
650.3	PLEISTOCENE		CLAY & GRAVEL	3.0	23.0	
647.3	PLEISTOCENE		CLAY	0.7	26.0	BOULD
646.6	PLEISTOCENE		CLAY	3.3	26.7	AND BOULDERS
643.3	PLEISTOCENE		SAND & GRAVEL	14.0	30.0	
629.3	PLEISTOCENE		GRAY SHALE	2.2	44.0	

MAPID: 0579149600C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 13 / 1959

SURFACE ELEVATION (FT.): 672.8 LOGGED (FT.): 38.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6618 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.8	PLEISTOCENE		SOIL	1.0	0.0	
671.8	PLEISTOCENE		CLAY & GRAVEL	25.5	1.0	
646.3	PLEISTOCENE			4.9	26.5	
641.4	CARBONDALE	ST. DAVID	LIMESTONE	0.3	31.4	
641.1	CARBONDALE		SHALE	0.3	31.7	
640.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	32.0	
640.3	CARBONDALE	SPRINGFIELD	COAL	3.9	32.5	SOFT
636.4	CARBONDALE		UNDERCLAY	1.6	36.4	

MAPID: 0579149700C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 13 / 1959

SURFACE ELEVATION (FT.): 671.3 LOGGED (FT.): 40.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6620 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.3	PLEISTOCENE		SOIL	1.0	0.0	
670.3	PLEISTOCENE			16.8	1.0	YEL
653.5	PLEISTOCENE			14.3	17.8	GRAY
639.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	32.1	
638.0	CARBONDALE	SPRINGFIELD	COAL	3.0	33.3	SOFT
635.0	CARBONDALE		UNDERCLAY	1.7	36.3	
633.3	CARBONDALE		GRAY SHALE	2.0	38.0	

MAPID: 05791498000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 15 / 1959

SURFACE ELEVATION (FT.): 669.6 LOGGED (FT.): 32.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6621 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.6	PLEISTOCENE		SOIL	1.0	0.0	
668.6	PLEISTOCENE		CLAY	22.0	1.0	YEL
646.6	PLEISTOCENE		CLAY	2.3	23.0	GRAY
644.3	CARBONDALE	ST. DAVID	LIMESTONE	0.7	25.3	
643.6	CARBONDALE	TURNER MINE	DARK SHALE	1.4	26.0	
642.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	27.4	SOFT
641.5	CARBONDALE	SPRINGFIELD	COAL	3.0	28.1	SOFT BROKEN
638.5	CARBONDALE		UNDERCLAY	0.9	31.1	

MAPID: 05791499000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 15 / 1959

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 20.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6623 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0	PLEISTOCENE		SOIL	1.0	0.0	
659.0	PLEISTOCENE		CLAY	11.0	1.0	
648.0	PLEISTOCENE			1.0	12.0	
647.0	CARBONDALE	ST. DAVID	LIMESTONE	0.6	13.0	
646.4	CARBONDALE	TURNER MINE	DARK SHALE	0.8	13.6	
645.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	14.4	BROKEN
644.3	CARBONDALE	SPRINGFIELD	COAL	3.6	15.7	SOFT
640.7	CARBONDALE		UNDERCLAY	0.7	19.3	

MAPID: 0579150000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 16 / 1959

SURFACE ELEVATION (FT.): 655.6 LOGGED (FT.): 20.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6626

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.6	PLEISTOCENE		SOIL	1.0	0.0	
654.6	PLEISTOCENE		CLAY	11.0	1.0	
643.6	CARBONDALE	TURNER MINE	DARK SHALE	0.4	12.0	SOFT
643.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	12.4	SOFT
641.8	CARBONDALE	SPRINGFIELD	COAL	3.8	13.8	SOFT
638.0	CARBONDALE		UNDERCLAY	2.7	17.6	

MAPID: 05791501000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 16 / 1959

SURFACE ELEVATION (FT.): 648.4 LOGGED (FT.): 20.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6627

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.4	PLEISTOCENE		SOIL	1.0	0.0	
647.4	PLEISTOCENE		CLAY	10.5	1.0	
636.9	PLEISTOCENE		CLAY	0.5	11.5	BOULD
636.4	PLEISTOCENE			8.3	12.0	

MAPID: 05791502000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 16 / 1959

SURFACE ELEVATION (FT.): 660.2 LOGGED (FT.): 33.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6628

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
660.2	PLEISTOCENE		CLAY	11.2	0.0	YEL
649.0	PLEISTOCENE		CLAY	5.0	11.2	GRAY
644.0	PLEISTOCENE		CLAY	0.3	16.2	BOULD
643.7	PLEISTOCENE			11.7	16.5	
632.0	CARBONDALE	SPRINGFIELD	COAL	2.8	28.2	TOP ERODED
629.2	CARBONDALE		UNDERCLAY	2.9	31.0	

MAPID: 05791503000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 7 / 16 / 1959

SURFACE ELEVATION (FT.): 661.3 LOGGED (FT.): 24.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6636

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
661.3	PLEISTOCENE		CLAY	16.9	0.0	
644.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	16.9	SOFT
642.7	CARBONDALE	SPRINGFIELD	COAL	3.7	18.6	SOFT
639.0	CARBONDALE		UNDERCLAY	1.7	22.3	

MAPID: 05791504000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 17 / 1959

SURFACE ELEVATION (FT.): 648.6 LOGGED (FT.): 10.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6637

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
648.6	PLEISTOCENE		CLAY	5.5	0.0	YEL
643.1	PLEISTOCENE		CLAY	0.4	5.5	DARK
642.7	CARBONDALE	SPRINGFIELD	COAL	3.7	5.9	SOFT BROKEN; TOP ERODED
639.0	CARBONDALE		UNDERCLAY	0.7	9.6	

MAPID: 05791505000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 18 / 1959

SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 10.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6638 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0	PLEISTOCENE		CLAY	2.8	0.0	
647.2	CARBONDALE	SPRINGFIELD	COAL	2.6	2.8	TOP ERODED
644.6	CARBONDALE		UNDERCLAY	1.6	5.4	
643.0	CARBONDALE		CLAYSTONE	3.2	7.0	

MAPID: 05791506000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 6 / 18 / 1959

SURFACE ELEVATION (FT.): 654.2 LOGGED (FT.): 20.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6639 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.2	PLEISTOCENE		CLAY	7.8	0.0	
646.4	PLEISTOCENE		CLAY	0.3	7.8	BOULD
646.1	CARBONDALE		SHALE	1.9	8.1	SOFT
644.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	10.0	
643.3	CARBONDALE	SPRINGFIELD	COAL	2.3	10.9	SOFT
641.0	CARBONDALE	SPRINGFIELD	COAL	1.6	13.2	SOFT
639.4	CARBONDALE		UNDERCLAY	1.2	14.8	
638.2	CARBONDALE		GRAY SHALE	4.1	16.0	

MAPID: 05791507000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 18 / 1959

SURFACE ELEVATION (FT.): 665.4 LOGGED (FT.): 26.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6641

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.4	PLEISTOCENE		SOIL	1.0	0.0	
664.4	PLEISTOCENE		CLAY	15.8	1.0	
648.6	PLEISTOCENE			2.7	16.8	
645.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	19.5	
644.6	CARBONDALE	SPRINGFIELD	COAL	3.4	20.8	SOFT
641.2	CARBONDALE		UNDERCLAY	1.8	24.2	

MAPID: 05791508000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 18 / 1959

SURFACE ELEVATION (FT.): 661.2 LOGGED (FT.): 20.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6643

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.2	PLEISTOCENE			15.6	0.0	
645.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	15.6	SOFT
644.3	CARBONDALE	SPRINGFIELD	COAL	2.6	16.9	BROKEN
641.7	CARBONDALE		UNDERCLAY	0.6	19.5	

MAPID: 05791509000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 18 / 1959

SURFACE ELEVATION (FT.): 664.3 LOGGED (FT.): 24.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6644

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
664.3	PLEISTOCENE		CLAY	12.9	0.0	YEL
651.4	PLEISTOCENE		CLAY	4.3	12.9	GRAY
647.1	CARBONDALE	TURNER MINE	DARK SHALE	0.8	17.2	
646.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	18.0	
645.7	CARBONDALE	SPRINGFIELD	COAL	3.9	18.6	
641.8	CARBONDALE		UNDERCLAY	1.5	22.5	

MAPID: 05791510000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 19 / 1959

SURFACE ELEVATION (FT.): 669.4 LOGGED (FT.): 26.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6646

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
669.4	PLEISTOCENE		CLAY	18.7	0.0	YEL
650.7	PLEISTOCENE		CLAY	1.2	18.7	GRAY
649.5	CARBONDALE		SHALE	1.2	19.9	SOFT
648.3	CARBONDALE	SPRINGFIELD	COAL	1.6	21.1	SOFT BROKEN
646.7	CARBONDALE	SPRINGFIELD	COAL	2.0	22.7	SOFT BROKEN
644.7	CARBONDALE		UNDERCLAY	2.0	24.7	

MAPID: 05791511000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 19 / 1959

SURFACE ELEVATION (FT.): 664.7 LOGGED (FT.): 20.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6648

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
664.7	PLEISTOCENE		CLAY	11.5	0.0	YEL
653.2	PLEISTOCENE		CLAY	2.7	11.5	GRAY
650.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	14.2	SOFT
649.3	CARBONDALE	SPRINGFIELD	COAL	3.8	15.4	SOFT
645.5	CARBONDALE		UNDERCLAY	0.8	19.2	

MAPID: 05791512000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 19 / 1959

SURFACE ELEVATION (FT.): 652.9 LOGGED (FT.): 10.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6650

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
652.9	PLEISTOCENE		CLAY	4.1	0.0	YEL
648.8	PLEISTOCENE		CLAY	1.2	4.1	GRAY
647.6	CARBONDALE	SPRINGFIELD	COAL	3.3	5.3	VERY SOFT; TOP ERODED
644.3	CARBONDALE		UNDERCLAY	1.7	8.6	

MAPID: 05791513000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 20 / 1959

SURFACE ELEVATION (FT.): 648.0 LOGGED (FT.): 12.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6654

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
648.0	PLEISTOCENE		SOIL	1.0	0.0	
647.0	PLEISTOCENE		CLAY	5.8	1.0	
641.2	CARBONDALE	SPRINGFIELD	COAL	1.0	6.8	TOP ERODED
640.2	CARBONDALE		UNDERCLAY	1.2	7.8	
639.0	CARBONDALE		GRAY SHALE	3.0	9.0	

MAPID: 05791514000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 22 / 1961

SURFACE ELEVATION (FT.): 649.9 LOGGED (FT.): 10.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7151

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.9	PLEISTOCENE		CLAY	5.1	0.0	
644.8	PLEISTOCENE		CLAY	0.6	5.1	BOULD
644.2	CARBONDALE	TURNER MINE	DARK SHALE	1.0	5.7	
643.2	CARBONDALE	SPRINGFIELD	COAL	3.1	6.7	VERY SOFT BROKEN; TOP ERODED
640.1	CARBONDALE		UNDERCLAY	1.0	9.8	

MAPID: 05791515000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 22 / 1961

SURFACE ELEVATION (FT.): 655.5 LOGGED (FT.): 10.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7154

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.5	PLEISTOCENE		CLAY	5.8	0.0	
649.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	5.8	SOFT
649.2	CARBONDALE	SPRINGFIELD	COAL	3.5	6.3	SOFT BROKEN
645.7	CARBONDALE		UNDERCLAY	1.0	9.8	

MAPID: 05791516000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 22 / 1961

SURFACE ELEVATION (FT.): 669.5 LOGGED (FT.): 27.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7155

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.5	PLEISTOCENE			20.0	0.0	
649.5	CARBONDALE	TURNER MINE	SHALE	1.9	20.0	
647.6	CARBONDALE	SPRINGFIELD	COAL	2.7	21.9	BROKEN
644.9	CARBONDALE	SPRINGFIELD	COAL	1.0	24.6	SOFT
643.9	CARBONDALE		UNDERCLAY	1.4	25.6	

MAPID: 05791517000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 23 / 1961

SURFACE ELEVATION (FT.): 656.0 LOGGED (FT.): 20.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7157

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
656.0	PLEISTOCENE		CLAY	8.3	0.0
647.7	PLEISTOCENE		CLAY & GRAVEL	4.1	8.3
643.6	PLEISTOCENE		CLAY, SAND & GRAVEL	6.0	12.4
637.6	PLEISTOCENE		UNDERCLAY	1.6	18.4

MAPID: 05791518000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 23 / 1961

SURFACE ELEVATION (FT.): 656.6 LOGGED (FT.): 19.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7158

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
656.6	PLEISTOCENE		CLAY	10.7	0.0
645.9	PLEISTOCENE		SAND & GRAVEL	2.9	10.7
643.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	13.6 BROKEN
642.4	CARBONDALE	SPRINGFIELD	COAL	3.0	14.2
639.4	CARBONDALE		UNDERCLAY	1.8	17.2

MAPID: 05791519000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 23 / 1961

SURFACE ELEVATION (FT.): 651.1 LOGGED (FT.): 18.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7159

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
651.1	PLEISTOCENE		CLAY & GRAVEL	12.6	0.0
638.5	PLEISTOCENE			5.4	12.6

MAPID: 0579152000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 6 / 23 / 1961

SURFACE ELEVATION (FT.): 662.9 LOGGED (FT.): 25.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7160

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
662.9	PLEISTOCENE		CLAY & GRAVEL	16.6	0.0
646.3	PLEISTOCENE		CLAY, SAND & GRAVEL	9.2	16.6

MAPID: 05791521000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 7 / 12 / 1961

SURFACE ELEVATION (FT.): 661.6 LOGGED (FT.): 30.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7167

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
661.6	PLEISTOCENE		CLAY	14.0	0.0
647.6	PLEISTOCENE		CLAY, SAND & GRAVEL	16.0	14.0

MAPID: 05791522000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 7 / 12 / 1961

SURFACE ELEVATION (FT.): 658.6 LOGGED (FT.): 22.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7170

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
658.6	PLEISTOCENE		CLAY	15.8	0.0
642.8	PLEISTOCENE		CLAY & GRAVEL	2.7	15.8
640.1	PLEISTOCENE		CLAY	0.5	18.5 BOULD
639.6	PLEISTOCENE		SAND & GRAVEL	2.3	19.0
637.3	PLEISTOCENE		CLAY	0.7	21.3 BOULD

MAPID: 05791543000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 2 / 1962

SURFACE ELEVATION (FT.): 680.2 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7656 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.2	PLEISTOCENE		SOIL	1.0	0.0
679.2	PLEISTOCENE		CLAY	25.4	1.0
653.8	PLEISTOCENE		CLAY, SAND & GRAVEL	19.0	26.4
634.8			UNDERCLAY	2.0	45.4
632.8			GRAY SHALE	0.9	47.4
631.9			LIMESTONE	0.7	48.3
631.2			GRAY SHALE	1.0	49.0

MAPID: 05791544000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 2 / 1962

SURFACE ELEVATION (FT.): 681.5 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7657 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.5	PLEISTOCENE		SOIL	1.0	0.0
680.5	PLEISTOCENE		CLAY	25.7	1.0
654.8	PLEISTOCENE		CLAY	1.0	26.7 BOULD
653.8	PLEISTOCENE		CLAY, SAND & GRAVEL	6.6	27.7
647.2	PLEISTOCENE		CLAY & GRAVEL	6.8	34.3
640.4	CARBONDALE	SPRINGFIELD	COAL	1.6	41.1 SOFT BROKEN; TOP ERODED
638.8	CARBONDALE		UNDERCLAY	2.3	42.7
636.5	CARBONDALE		GRAY SHALE	5.0	45.0

MAPID: 05791545000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 3 / 1962

SURFACE ELEVATION (FT.): 671.6 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7659

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.6	PLEISTOCENE		SOIL	1.0	0.0	
670.6	PLEISTOCENE		CLAY	10.6	1.0	
660.0	PLEISTOCENE		CLAY	4.1	11.6	BOULD
655.9	PLEISTOCENE		CLAY & GRAVEL	34.3	15.7	

MAPID: 05791546000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 3 / 1962

SURFACE ELEVATION (FT.): 667.3 LOGGED (FT.): 49.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7660

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.3	PLEISTOCENE		SOIL	1.0	0.0	
666.3	PLEISTOCENE		CLAY	13.0	1.0	
653.3	PLEISTOCENE		CLAY & GRAVEL	35.3	14.0	

MAPID: 05791547000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 3 / 1962

SURFACE ELEVATION (FT.): 694.7 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7661

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.7	PLEISTOCENE		SOIL	1.0	0.0	
693.7	PLEISTOCENE		CLAY	20.3	1.0	
673.4	PLEISTOCENE		CLAY & GRAVEL	18.0	21.3	
655.4	PLEISTOCENE		SAND	6.9	39.3	
648.5	PLEISTOCENE			3.8	46.2	

MAPID: 05791548000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 3 / 1962

SURFACE ELEVATION (FT.): 691.6 LOGGED (FT.): 51.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7662 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
691.6	PLEISTOCENE		SOIL	1.0	0.0	
690.6	PLEISTOCENE		CLAY	20.2	1.0	
670.4	PLEISTOCENE		CLAY	0.7	21.2	BOULD
669.7	PLEISTOCENE		CLAY & GRAVEL	15.5	21.9	
654.2	CARBONDALE		DARK SHALE	2.0	37.4	
652.2	CARBONDALE		LIMESTONE	0.6	39.4	
651.6	CARBONDALE		DARK SHALE	2.8	40.0	
648.8	CARBONDALE	ST. DAVID	LIMESTONE	0.8	42.8	
648.0	CARBONDALE	TURNER MINE	DARK SHALE	1.5	43.6	
646.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	45.1	
645.3	CARBONDALE	SPRINGFIELD	COAL	3.6	46.3	AND HORSEBACK
641.7	CARBONDALE		UNDERCLAY	1.1	49.9	

MAPID: 05791549000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 6 / 1962

SURFACE ELEVATION (FT.): 683.2 LOGGED (FT.): 49.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7664 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.2	PLEISTOCENE		SOIL	1.0	0.0	
682.2	PLEISTOCENE		CLAY	29.6	1.0	
652.6	PLEISTOCENE		CLAY & GRAVEL	4.2	30.6	
648.4	PLEISTOCENE		SAND & GRAVEL	3.0	34.8	
645.4	PLEISTOCENE		CLAY	0.3	37.8	BOULD
645.1	PLEISTOCENE		CLAY & GRAVEL	9.5	38.1	
635.6			GRAY SHALE	2.2	47.6	

MAPID: 0579155000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 6 / 1962

SURFACE ELEVATION (FT.): 684.8 LOGGED (FT.): 49.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7666 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.8	PLEISTOCENE		SOIL	1.0	0.0	
683.8	PLEISTOCENE		CLAY & GRAVEL	21.8	1.0	YEL
662.0	PLEISTOCENE		CLAY & GRAVEL	9.3	22.8	GRAY
652.7	PLEISTOCENE		SAND & GRAVEL	5.1	32.1	
647.6	PLEISTOCENE		CLAY & GRAVEL	1.2	37.2	
646.4	PLEISTOCENE		CLAY	1.6	38.4	BOULD
644.8	PLEISTOCENE		CLAY & GRAVEL	6.7	40.0	
638.1			GRAY SHALE	2.7	46.7	

MAPID: 05791551000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 7 / 1962

SURFACE ELEVATION (FT.): 687.4 LOGGED (FT.): 55.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7668 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.4	PLEISTOCENE		SOIL	1.0	0.0	
686.4	PLEISTOCENE		CLAY & GRAVEL	21.6	1.0	
664.8	PLEISTOCENE		CLAY	1.2	22.6	BOULD
663.6	PLEISTOCENE		CLAY & GRAVEL	25.4	23.8	
638.2			GRAY SHALE	6.2	49.2	

MAPID: 05791552000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 7 / 1962
SURFACE ELEVATION (FT.): 688.3 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 7670 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.3	PLEISTOCENE		SOIL	1.0	0.0	
687.3	PLEISTOCENE		CLAY	23.8	1.0	
663.5	PLEISTOCENE		CLAY, SAND & GRAVEL	14.5	24.8	
649.0	PLEISTOCENE		CLAY & GRAVEL	8.4	39.3	
640.6	PLEISTOCENE		SAND & GRAVEL	2.3	47.7	

MAPID: 05791553000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 7 / 1962
SURFACE ELEVATION (FT.): 687.2 LOGGED (FT.): 49.3 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 7671 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.2	PLEISTOCENE		SOIL	1.0	0.0	
686.2	PLEISTOCENE		CLAY & GRAVEL	26.1	1.0	YEL
660.1	PLEISTOCENE		CLAY & GRAVEL	14.6	27.1	GRAY
645.5	CARBONDALE	SPRINGFIELD	COAL	4.3	41.7	BLOOM; TOP ERODED
641.2	CARBONDALE		GRAY SHALE	3.3	46.0	

MAPID: 05791554000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 8 / 1962
SURFACE ELEVATION (FT.): 689.2 LOGGED (FT.): 49.4 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 7674 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.2	PLEISTOCENE		SOIL	1.0	0.0	
688.2	PLEISTOCENE		CLAY	19.9	1.0	
668.3	PLEISTOCENE		CLAY & GRAVEL	27.3	20.9	
641.0			GRAY SHALE	1.2	48.2	

MAPID: 05791555000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 8 / 1962

SURFACE ELEVATION (FT.): 691.5 LOGGED (FT.): 56.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7675 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
691.5	PLEISTOCENE		SOIL	1.0	0.0
690.5	PLEISTOCENE		CLAY	30.6	1.0
659.9	PLEISTOCENE		CLAY & GRAVEL	19.0	31.6
640.9			LIMESTONE	0.8	50.6
640.1			GRAY SHALE	4.6	51.4

MAPID: 05791556000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 9 / 1962

SURFACE ELEVATION (FT.): 693.3 LOGGED (FT.): 59.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7677 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
693.3	PLEISTOCENE		SOIL	1.0	0.0
692.3	PLEISTOCENE		CLAY	19.6	1.0
672.7	PLEISTOCENE		CLAY & GRAVEL	34.2	20.6
638.5			GRAY SHALE	1.8	54.8
636.7			LIMESTONE	1.3	56.6
635.4			GRAY SHALE	1.3	57.9

MAPID: 05791557000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 9 / 1962
SURFACE ELEVATION (FT.): 693.4 LOGGED (FT.): 51.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 7678 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

Table with 5 columns: ELEVATION TOP (FT.), FORMATION, MEMBER, LITHOLOGY, THICKNESS (FT.) UNIT OVERBURDEN COMMENT. Rows include Pleistocene and Carbondale formations with lithologies like SOIL, CLAY, and COAL.

MAPID: 05791558000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 9 / 1962
SURFACE ELEVATION (FT.): 695.0 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 7679 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

Table with 5 columns: ELEVATION TOP (FT.), FORMATION, MEMBER, LITHOLOGY, THICKNESS (FT.) UNIT OVERBURDEN COMMENT. Rows include Pleistocene formations with lithologies like SOIL, CLAY, and SAND & GRAVEL.

MAPID: 05791559000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 9 / 1962
SURFACE ELEVATION (FT.): 692.6 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 7681 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

Table with 5 columns: ELEVATION TOP (FT.), FORMATION, MEMBER, LITHOLOGY, THICKNESS (FT.) UNIT OVERBURDEN COMMENT. Rows include Pleistocene formations with lithologies like SOIL, CLAY, and CLAY & GRAVEL.

MAPID: 0579156000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 10 / 1962

SURFACE ELEVATION (FT.): 682.2 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7683

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.2	PLEISTOCENE		SOIL	1.0	0.0	
681.2	PLEISTOCENE		CLAY	11.2	1.0	
670.0	PLEISTOCENE			37.8	12.2	

MAPID: 05791561000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 10 / 1962

SURFACE ELEVATION (FT.): 680.4 LOGGED (FT.): 40.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7685

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.4	PLEISTOCENE		SOIL	1.0	0.0	
679.4	PLEISTOCENE		CLAY	7.6	1.0	AND BOULDERS
671.8	PLEISTOCENE		SAND & GRAVEL	9.6	8.6	
662.2	PLEISTOCENE		CLAY, SAND & GRAVEL	22.0	18.2	

MAPID: 05791562000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 11 / 1962

SURFACE ELEVATION (FT.): 684.7 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7687

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.7	PLEISTOCENE		SOIL	1.0	0.0	
683.7	PLEISTOCENE		CLAY	15.4	1.0	
668.3	PLEISTOCENE			13.6	16.4	
654.7	PLEISTOCENE		CLAY & GRAVEL	30.0	30.0	

MAPID: 05791563000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 11 / 1962

SURFACE ELEVATION (FT.): 686.7 LOGGED (FT.): 48.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7688 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
686.7	PLEISTOCENE		SOIL	1.0	0.0	
685.7	PLEISTOCENE		CLAY	14.4	1.0	
671.3	PLEISTOCENE		CLAY, SAND & GRAVEL	29.6	15.4	
641.7	CARBONDALE	SPRINGFIELD	COAL	2.2	45.0	VERY SOFT BROKEN; TOP ERODED
639.5	CARBONDALE		UNDERCLAY	1.0	47.2	

MAPID: 05791564000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 11 / 1962

SURFACE ELEVATION (FT.): 689.7 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7689 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.7	PLEISTOCENE		SOIL	1.0	0.0	
688.7	PLEISTOCENE		CLAY	18.7	1.0	
670.0	PLEISTOCENE		CLAY & GRAVEL	18.6	19.7	
651.4	CARBONDALE		GRAY SHALE	3.6	38.3	
647.8	CARBONDALE	ST. DAVID	LIMESTONE	0.7	41.9	
647.1	CARBONDALE	TURNER MINE	DARK SHALE	1.1	42.6	
646.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	43.7	
644.8	CARBONDALE	SPRINGFIELD	COAL	3.7	44.9	
641.1	CARBONDALE		UNDERCLAY	1.4	48.6	

MAPID: 05791565000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 11 / 1962

SURFACE ELEVATION (FT.): 695.4 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7690 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.4	PLEISTOCENE		SOIL	1.0	0.0	
694.4	PLEISTOCENE		CLAY	21.4	1.0	
673.0	PLEISTOCENE		CLAY & GRAVEL	17.6	22.4	
655.4	PLEISTOCENE		CLAY	7.8	40.0	
647.6	PLEISTOCENE			8.1	47.8	
639.5			GRAY SHALE	4.1	55.9	

MAPID: 05791566000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 13 / 1962

SURFACE ELEVATION (FT.): 698.4 LOGGED (FT.): 57.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7691 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.4	PLEISTOCENE		SOIL	1.0	0.0	
697.4	PLEISTOCENE		CLAY	22.7	1.0	
674.7	PLEISTOCENE		CLAY	0.4	23.7	BOULD
674.3	PLEISTOCENE		CLAY & GRAVEL	18.4	24.1	
655.9	PLEISTOCENE			5.4	42.5	
650.5	CARBONDALE		GRAY SHALE	3.1	47.9	
647.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	51.0	
646.2	CARBONDALE	SPRINGFIELD	COAL	3.7	52.2	
642.5	CARBONDALE		UNDERCLAY	1.1	55.9	

MAPID: 05791567000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 13 / 1962

SURFACE ELEVATION (FT.): 695.5 LOGGED (FT.): 54.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7692

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.5	PLEISTOCENE		SOIL	1.0	0.0	
694.5	PLEISTOCENE		CLAY	21.6	1.0	
672.9	PLEISTOCENE		CLAY & GRAVEL	16.9	22.6	
656.0	PLEISTOCENE		CLAY	11.2	39.5	
644.8	CARBONDALE	SPRINGFIELD	COAL	3.0	50.7	VERY SOFT BROKEN; TOP ERODED
641.8	CARBONDALE		UNDERCLAY	1.0	53.7	

MAPID: 05791568000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 13 / 1962

SURFACE ELEVATION (FT.): 695.0 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7694

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.0	PLEISTOCENE		SOIL	1.0	0.0	
694.0	PLEISTOCENE		CLAY	20.9	1.0	
673.1	PLEISTOCENE		CLAY & GRAVEL	1.2	21.9	
671.9	PLEISTOCENE		CLAY	1.1	23.1	BOULD
670.8	PLEISTOCENE		CLAY & GRAVEL	18.2	24.2	
652.6	PLEISTOCENE		SAND & GRAVEL	9.3	42.4	
643.3	CARBONDALE	SPRINGFIELD	COAL	1.7	51.7	SOFT BROKEN; TOP ERODED
641.6	CARBONDALE		UNDERCLAY	1.6	53.4	

MAPID: 05791569000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 14 / 1962

SURFACE ELEVATION (FT.): 694.6 LOGGED (FT.): 53.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7695

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.6	PLEISTOCENE		SOIL	1.0	0.0	
693.6	PLEISTOCENE		CLAY	24.0	1.0	
669.6	PLEISTOCENE		CLAY & GRAVEL	12.4	25.0	
657.2	PLEISTOCENE		SAND & GRAVEL	12.0	37.4	
645.2	CARBONDALE	SPRINGFIELD	COAL	2.5	49.4	VERY SOFT; TOP ERODED
642.7	CARBONDALE		UNDERCLAY	1.1	51.9	

MAPID: 05791570000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 15 / 1962

SURFACE ELEVATION (FT.): 680.8 LOGGED (FT.): 44.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7697

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.8	PLEISTOCENE		SOIL	1.0	0.0	
679.8	PLEISTOCENE		CLAY & GRAVEL	31.6	1.0	
648.2	CARBONDALE		GRAY SHALE	2.8	32.6	SOFT
645.4	CARBONDALE	ST. DAVID	LIMESTONE	0.4	35.4	
645.0	CARBONDALE		GRAY SHALE	1.8	35.8	
643.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	37.6	SOFT
642.2	CARBONDALE	SPRINGFIELD	COAL	3.6	38.6	SOFT
638.6	CARBONDALE		UNDERCLAY	1.8	42.2	

MAPID: 05791571000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 15 / 1962

SURFACE ELEVATION (FT.): 679.0 LOGGED (FT.): 42.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7698 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.0	PLEISTOCENE		SOIL	1.0	0.0	
678.0	PLEISTOCENE		CLAY & GRAVEL	26.3	1.0	
651.7	PLEISTOCENE		SAND & GRAVEL	8.0	27.3	
643.7	PLEISTOCENE		CLAY	1.7	35.3	
642.0	CARBONDALE	SPRINGFIELD	COAL	1.5	37.0	BLOOM; TOP ERODED
640.5	CARBONDALE	SPRINGFIELD	COAL	1.8	38.5	SOFT BROKEN
638.7	CARBONDALE		UNDERCLAY	1.7	40.3	

MAPID: 05791572000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 15 / 1962

SURFACE ELEVATION (FT.): 678.0 LOGGED (FT.): 40.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7699 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.0	PLEISTOCENE		SOIL	1.0	0.0	
677.0	PLEISTOCENE		CLAY	18.6	1.0	
658.4	PLEISTOCENE		SAND	5.0	19.6	
653.4	PLEISTOCENE		CLAY & GRAVEL	5.7	24.6	
647.7	PLEISTOCENE		CLAY	2.6	30.3	
645.1	CARBONDALE	ST. DAVID	LIMESTONE	0.3	32.9	
644.8	CARBONDALE		SHALE	1.8	33.2	SOFT
643.0	CARBONDALE	SPRINGFIELD	COAL	2.0	35.0	BLOOM; TOP ERODED
641.0	CARBONDALE	SPRINGFIELD	COAL	1.2	37.0	SOFT
639.8	CARBONDALE		UNDERCLAY	1.8	38.2	

MAPID: 05791573000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 15 / 1962

SURFACE ELEVATION (FT.): 671.3 LOGGED (FT.): 34.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7700 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.3	PLEISTOCENE		SOIL	1.0	0.0	
670.3	PLEISTOCENE		CLAY	22.0	1.0	
648.3	CARBONDALE		GRAY SHALE	4.4	23.0	SOFT
643.9	CARBONDALE	TURNER MINE	SHALE	1.2	27.4	
642.7	CARBONDALE	SPRINGFIELD	COAL	3.5	28.6	AND HORSEBACK
639.2	CARBONDALE		UNDERCLAY	1.9	32.1	

MAPID: 05791574000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 15 / 1962

SURFACE ELEVATION (FT.): 659.7 LOGGED (FT.): 28.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7701 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.7	PLEISTOCENE		SOIL	1.0	0.0	
658.7	PLEISTOCENE		CLAY	11.7	1.0	
647.0	PLEISTOCENE		CLAY, SAND & GRAVEL	6.7	12.7	
640.3	PLEISTOCENE			2.0	19.4	
638.3	CARBONDALE	SPRINGFIELD	CLAY & COAL	1.5	21.4	TOP ERODED
636.8	CARBONDALE		UNDERCLAY	1.1	22.9	
635.7	CARBONDALE		GRAY SHALE	4.4	24.0	

MAPID: 05791575000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 16 / 1962

SURFACE ELEVATION (FT.): 670.2 LOGGED (FT.): 39.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7702 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.2	PLEISTOCENE		CLAY & GRAVEL	25.0	0.0	
645.2	PLEISTOCENE		SAND & GRAVEL	7.8	25.0	
637.4			GRAY SHALE	4.1	32.8	
633.3			LIMESTONE	1.6	36.9	
631.7			GRAY SHALE	1.2	38.5	

MAPID: 05791576000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 16 / 1962

SURFACE ELEVATION (FT.): 678.5 LOGGED (FT.): 43.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7705 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.5	PLEISTOCENE		SOIL	1.0	0.0	
677.5	PLEISTOCENE		CLAY & GRAVEL	31.2	1.0	
646.3	PLEISTOCENE		CLAY	2.8	32.2	AND BOULDERS
643.5	CARBONDALE	TURNER MINE	DARK SHALE	1.1	35.0	
642.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	36.1	AND HORSEBACK
640.6	CARBONDALE	SPRINGFIELD	COAL	3.6	37.9	AND HORSEBACK SOFT
637.0	CARBONDALE		UNDERCLAY	1.5	41.5	

MAPID: 05791577000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 17 / 1962

SURFACE ELEVATION (FT.): 675.4 LOGGED (FT.): 41.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7707

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.4	PLEISTOCENE		SOIL	1.0	0.0	
674.4	PLEISTOCENE		CLAY & GRAVEL	25.6	1.0	
648.8	PLEISTOCENE		CLAY, SAND & GRAVEL	7.9	26.6	
640.9	CARBONDALE		UNCLASSIFIED	3.8	34.5	HORSEBACK
637.1	CARBONDALE		UNDERCLAY	2.0	38.3	
635.1	CARBONDALE		LIMESTONE	0.7	40.3	

MAPID: 05791578000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 17 / 1962

SURFACE ELEVATION (FT.): 674.5 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7708

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.5	PLEISTOCENE		SOIL	1.0	0.0	
673.5	PLEISTOCENE		CLAY	24.0	1.0	YEL
649.5	PLEISTOCENE		CLAY	9.7	25.0	GRAY
639.8	CARBONDALE		UNCLASSIFIED	2.3	34.7	HORSEBACK
637.5	CARBONDALE		UNDERCLAY	3.0	37.0	

MAPID: 05791579000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 17 / 1962

SURFACE ELEVATION (FT.): 665.6 LOGGED (FT.): 29.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7709

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.6	PLEISTOCENE		CLAY	18.6	0.0	
647.0	CARBONDALE		GRAY SHALE	4.0	18.6	SOFT
643.0	CARBONDALE	SPRINGFIELD	COAL	1.6	22.6	SOFT
641.4	CARBONDALE		UNCLASSIFIED	1.6	24.2	HORSEBACK
639.8	CARBONDALE		UNDERCLAY	1.2	25.8	
638.6	CARBONDALE		GRAY SHALE	2.6	27.0	

MAPID: 05791580000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 17 / 1962

SURFACE ELEVATION (FT.): 664.5 LOGGED (FT.): 24.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7710

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.5	PLEISTOCENE		CLAY	13.6	0.0	
650.9	CARBONDALE		SHALE	6.5	13.6	VERY SOFT
644.4	CARBONDALE	SPRINGFIELD	COAL	1.1	20.1	BLOOM
643.3	CARBONDALE	SPRINGFIELD	COAL	1.7	21.2	SOFT BROKEN
641.6	CARBONDALE		UNDERCLAY	1.1	22.9	

MAPID: 05791581000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 17 / 1962

SURFACE ELEVATION (FT.): 647.5 LOGGED (FT.): 9.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7712

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
647.5	PLEISTOCENE		CLAY	6.9	0.0	YEL
640.6	PLEISTOCENE		UNKNOWN	0.9	6.9	COAL BLOOM
639.7	PLEISTOCENE		CLAY	1.9	7.8	YEL

MAPID: 05791582000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 18 / 1962

SURFACE ELEVATION (FT.): 658.2 LOGGED (FT.): 19.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7713

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
658.2	PLEISTOCENE		CLAY	8.7	0.0	
649.5	CARBONDALE		BROWN SHALE	4.7	8.7	SOFT
644.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	13.4	VERY SOFT
643.5	CARBONDALE	SPRINGFIELD	COAL	3.0	14.7	VERY SOFT
640.5	CARBONDALE		UNDERCLAY	1.3	17.7	

MAPID: 05791583000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 18 / 1962

SURFACE ELEVATION (FT.): 657.7 LOGGED (FT.): 19.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7716

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
657.7	PLEISTOCENE		CLAY	8.8	0.0	
648.9	CARBONDALE		BROWN SHALE	3.0	8.8	VERY SOFT
645.9	CARBONDALE	SPRINGFIELD	COAL	3.0	11.8	VERY SOFT
642.9	CARBONDALE		UNDERCLAY	1.2	14.8	
641.7	CARBONDALE		GRAY SHALE	3.4	16.0	

MAPID: 05791584000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 19 / 1962

SURFACE ELEVATION (FT.): 638.1 LOGGED (FT.): 20.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7719

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
638.1	PLEISTOCENE		CLAY	2.6	0.0	
635.5			SANDY SHALE	11.0	2.6	
624.5			GRAY SHALE	6.4	13.6	

MAPID: 05791585000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 20 / 1962

SURFACE ELEVATION (FT.): 643.9 LOGGED (FT.): 9.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7720

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
643.9	PLEISTOCENE		CLAY	2.7	0.0	
641.2	CARBONDALE	SPRINGFIELD	COAL	1.5	2.7	VERY SOFT BROKEN; TOP ERODED
639.7	CARBONDALE		SANDY SHALE	5.5	4.2	VERY SOFT

MAPID: 05791586000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 22 / 1962

SURFACE ELEVATION (FT.): 682.2 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7735

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.2	PLEISTOCENE		CLAY	13.1	0.0	
669.1	PLEISTOCENE		CLAY & GRAVEL	1.8	13.1	
667.3	PLEISTOCENE		CLAY	0.5	14.9	BOULD
666.8	PLEISTOCENE		CLAY & GRAVEL	28.1	15.4	
638.7	PLEISTOCENE		CLAY	0.8	43.5	BOULD
637.9	PLEISTOCENE		CLAY & GRAVEL	5.7	44.3	

MAPID: 05791587000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 22 / 1962

SURFACE ELEVATION (FT.): 691.0 LOGGED (FT.): 58.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7736

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
691.0	PLEISTOCENE		CLAY & GRAVEL	30.0	0.0	YEL
661.0	PLEISTOCENE		CLAY & GRAVEL	23.8	30.0	GRAY
637.2			GRAY SHALE	4.2	53.8	

MAPID: 05791588000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 25 / 1962
SURFACE ELEVATION (FT.): 685.6 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 7741 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

Table with 5 columns: ELEVATION TOP (FT.), FORMATION, MEMBER, LITHOLOGY, THICKNESS (FT.) UNIT OVERBURDEN COMMENT. Rows include Pleistocene formations with lithologies like Clay & Gravel and thicknesses ranging from 17.1 to 31.1 ft.

MAPID: 05791589000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 27 / 1962
SURFACE ELEVATION (FT.): 654.3 LOGGED (FT.): 13.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 7746 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

Table with 5 columns: ELEVATION TOP (FT.), FORMATION, MEMBER, LITHOLOGY, THICKNESS (FT.) UNIT OVERBURDEN COMMENT. Rows include Pleistocene and Carbondale formations with lithologies like Clay, Brown Shale, Coal, and Underclay, and thicknesses ranging from 1.4 to 11.6 ft.

MAPID: 05791590000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 27 / 1962
SURFACE ELEVATION (FT.): 655.1 LOGGED (FT.): 16.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 7747 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

Table with 5 columns: ELEVATION TOP (FT.), FORMATION, MEMBER, LITHOLOGY, THICKNESS (FT.) UNIT OVERBURDEN COMMENT. Rows include Pleistocene and Carbondale formations with lithologies like Clay, Brown Shale, Black Shale, Coal, and Underclay, and thicknesses ranging from 1.5 to 14.5 ft.

MAPID: 05791591000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 27 / 1962
SURFACE ELEVATION (FT.): 663.2 LOGGED (FT.): 22.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 7748 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.2	PLEISTOCENE		CLAY	3.7	0.0	
659.5	CARBONDALE		BROWN SHALE	11.7	3.7	SOFT
647.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	15.4	SOFT
646.3	CARBONDALE	SPRINGFIELD	COAL	3.7	16.9	SOFT BROKEN
642.6	CARBONDALE		UNDERCLAY	1.4	20.6	

MAPID: 05791592000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 27 / 1962
SURFACE ELEVATION (FT.): 649.7 LOGGED (FT.): 12.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 7750 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.7	PLEISTOCENE		CLAY	8.3	0.0	
641.4	CARBONDALE	SPRINGFIELD	COAL	3.7	8.3	TOP ERODED
637.7	CARBONDALE		GRAY SHALE	2.7	12.0	SOFT

MAPID: 05791593000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 8 / 28 / 1962
SURFACE ELEVATION (FT.): 682.0 LOGGED (FT.): 42.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 7752 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.0	PLEISTOCENE		CLAY	21.5	0.0	
660.5	PLEISTOCENE		CLAY & GRAVEL	17.0	21.5	
643.5	CARBONDALE	SPRINGFIELD	CLAY & COAL	2.3	38.5	TOP ERODED
641.2	CARBONDALE		UNDERCLAY	1.2	40.8	

MAPID: 05791594000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 8 / 28 / 1962

SURFACE ELEVATION (FT.): 648.4 LOGGED (FT.): 19.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7753

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.4	PLEISTOCENE		CLAY	3.4	0.0	
645.0	CARBONDALE		SHALE	3.4	3.4	SOFT
641.6	CARBONDALE		RED SHALE	2.0	6.8	
639.6	CARBONDALE		GRAY SHALE	5.3	8.8	SOFT
634.3	CARBONDALE		LIMESTONE	0.9	14.1	
633.4	CARBONDALE		GRAY SHALE	4.5	15.0	

MAPID: 05791621000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 10 / 26 / 1962

SURFACE ELEVATION (FT.): 649.6 LOGGED (FT.): 12.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7924

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.6	PLEISTOCENE		SOIL	10.3	0.0	
639.3	CARBONDALE		UNDERCLAY	1.0	10.3	
638.3	CARBONDALE		GRAY SHALE	1.0	11.3	

MAPID: 05791622000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 10 / 30 / 1962

SURFACE ELEVATION (FT.): 683.6 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7934

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.6	CARBONDALE		CLAY & GRAVEL	24.5	0.0	YEL
659.1	CARBONDALE		CLAY & GRAVEL	35.5	24.5	GRAY

MAPID: 05791623000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 10 / 30 / 1962

SURFACE ELEVATION (FT.): 684.5 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7935

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.5	PLEISTOCENE		CLAY & GRAVEL	26.1	0.0	YEL
658.4	PLEISTOCENE		CLAY & GRAVEL	33.9	26.1	GRAY

MAPID: 05791624000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 10 / 30 / 1962

SURFACE ELEVATION (FT.): 685.2 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7936

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.2	PLEISTOCENE		CLAY & GRAVEL	23.5	0.0	YEL
661.7	PLEISTOCENE		CLAY & GRAVEL	6.0	23.5	GRAY
655.7	PLEISTOCENE		SAND & GRAVEL	17.0	29.5	
638.7	PLEISTOCENE			13.5	46.5	

MAPID: 05791625000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 10 / 31 / 1962

SURFACE ELEVATION (FT.): 691.0 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7937

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
691.0	PLEISTOCENE		SOIL	1.0	0.0	
690.0	PLEISTOCENE		CLAY & GRAVEL	18.4	1.0	
671.6	PLEISTOCENE		SAND & GRAVEL	10.6	19.4	
661.0	PLEISTOCENE		CLAY, SAND & GRAVEL	30.0	30.0	

MAPID: 05791626000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 10 / 31 / 1962

SURFACE ELEVATION (FT.): 677.4 LOGGED (FT.): 35.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7940 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
677.4	PLEISTOCENE		CLAY	13.5	0.0
663.9	PLEISTOCENE		CLAY & GRAVEL	8.1	13.5
655.8	CARBONDALE		GRAY SHALE	3.7	21.6
652.1	CARBONDALE		LIMESTONE	0.4	25.3
651.7	CARBONDALE		GRAY SHALE	0.9	25.7
650.8	CARBONDALE	ST. DAVID	LIMESTONE	0.6	26.6
650.2	CARBONDALE	TURNER MINE	DARK SHALE	1.2	27.2
649.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	28.4
647.6	CARBONDALE	SPRINGFIELD	COAL	3.8	29.8
643.8	CARBONDALE		UNDERCLAY	1.4	33.6

MAPID: 05791627000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 10 / 31 / 1962

SURFACE ELEVATION (FT.): 670.1 LOGGED (FT.): 40.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7941 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
670.1	PLEISTOCENE		CLAY	9.8	0.0
660.3	PLEISTOCENE		SAND	20.0	9.8
640.3	PLEISTOCENE		CLAY & GRAVEL	10.2	29.8

MAPID: 05791628000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 11 / 1 / 1962

SURFACE ELEVATION (FT.): 681.6 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7943 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.6	PLEISTOCENE		CLAY & GRAVEL	15.7	0.0
665.9	PLEISTOCENE		SAND & GRAVEL	20.0	15.7
645.9	PLEISTOCENE		CLAY & GRAVEL	12.3	35.7
633.6			GRAY SHALE	2.0	48.0

MAPID: 05791629000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 11 / 1 / 1962

SURFACE ELEVATION (FT.): 681.1 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7946 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.1	PLEISTOCENE		CLAY & GRAVEL	14.4	0.0
666.7	PLEISTOCENE		CLAY, SAND & GRAVEL	8.4	14.4
658.3	PLEISTOCENE		CLAY & GRAVEL	23.2	22.8
635.1			GRAY SHALE	4.0	46.0

MAPID: 0579163000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 11 / 6 / 1962

SURFACE ELEVATION (FT.): 676.8 LOGGED (FT.): 35.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7950 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.8	PLEISTOCENE		SOIL	1.0	0.0	
675.8	PLEISTOCENE		CLAY	18.7	1.0	
657.1	PLEISTOCENE		CLAY & GRAVEL	1.0	19.7	
656.1	PLEISTOCENE		CLAY	0.5	20.7	BOULD
655.6	PLEISTOCENE		CLAY & GRAVEL	5.3	21.2	
650.3	CARBONDALE		GRAY SHALE	1.6	26.5	
648.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	28.1	SOFT
647.5	CARBONDALE	SPRINGFIELD	COAL	3.8	29.3	SOFT
643.7	CARBONDALE		UNDERCLAY	1.9	33.1	

MAPID: 05791631000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 11 / 6 / 1962

SURFACE ELEVATION (FT.): 669.9 LOGGED (FT.): 40.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7951 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.9	PLEISTOCENE		CLAY & GRAVEL	12.6	0.0	
657.3	PLEISTOCENE		CLAY & GRAVEL	26.0	12.6	
631.3			GRAY SHALE	1.4	38.6	

MAPID: 05791632000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 11 / 6 / 1962

SURFACE ELEVATION (FT.): 659.0 LOGGED (FT.): 18.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7952 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.0	PLEISTOCENE		CLAY & GRAVEL	8.8	0.0	
650.2	CARBONDALE	TURNER MINE	DARK SHALE	0.6	8.8	
649.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	9.4	
648.2	CARBONDALE	SPRINGFIELD	COAL	3.9	10.8	SOFT
644.3	CARBONDALE		UNDERCLAY	2.3	14.7	
642.0	CARBONDALE		GRAY SHALE	1.6	17.0	

MAPID: 05791633000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 11 / 6 / 1962

SURFACE ELEVATION (FT.): 659.0 LOGGED (FT.): 16.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7953 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.0	PLEISTOCENE		CLAY	5.0	0.0	
654.0	CARBONDALE		SHALE	4.2	5.0	SOFT BROKEN
649.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	9.2	SOFT
648.4	CARBONDALE	SPRINGFIELD	COAL	3.6	10.6	BROKEN
644.8	CARBONDALE		UNDERCLAY	1.8	14.2	

MAPID: 05791634000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 11 / 7 / 1962

SURFACE ELEVATION (FT.): 653.7 LOGGED (FT.): 10.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7956

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.7	PLEISTOCENE		CLAY	2.0	0.0	
651.7	CARBONDALE		BROWN SHALE	2.8	2.0	SOFT
648.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	4.8	BROKEN
647.9	CARBONDALE	SPRINGFIELD	COAL	3.5	5.8	BROKEN SOFT
644.4	CARBONDALE		UNDERCLAY	0.7	9.3	

MAPID: 05791635000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 11 / 8 / 1962

SURFACE ELEVATION (FT.): 658.6 LOGGED (FT.): 17.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7960

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
658.6	PLEISTOCENE		CLAY	2.4	0.0	
656.2	CARBONDALE		BROWN SHALE	8.8	2.4	SOFT
647.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	11.2	
646.7	CARBONDALE	SPRINGFIELD	COAL	3.8	11.9	SOFT BROKEN
642.9	CARBONDALE		UNDERCLAY	1.3	15.7	

MAPID: 05791636000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 11 / 8 / 1962

SURFACE ELEVATION (FT.): 658.1 LOGGED (FT.): 18.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7961

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
658.1	PLEISTOCENE		CLAY	3.0	0.0	
655.1	CARBONDALE		BROWN SHALE	7.8	3.0	SOFT
647.3	CARBONDALE		SHALE	1.7	10.8	SOFT
645.6	CARBONDALE	SPRINGFIELD	COAL	3.7	12.5	SOFT BROKEN
641.9	CARBONDALE		UNDERCLAY	1.8	16.2	

MAPID: 05791637000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 11 / 8 / 1962

SURFACE ELEVATION (FT.): 650.6 LOGGED (FT.): 10.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7964

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.6	PLEISTOCENE		CLAY	4.1	0.0	
646.5	CARBONDALE		BROWN SHALE	0.8	4.1	SOFT
645.7	CARBONDALE	SPRINGFIELD	COAL	3.3	4.9	BLOOM
642.4	CARBONDALE		CLAYSTONE	1.8	8.2	GRAY

MAPID: 05791638000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 11 / 19 / 1962

SURFACE ELEVATION (FT.): 698.4 LOGGED (FT.): 56.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8002

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.4	PLEISTOCENE		SOIL	1.0	0.0	
697.4	PLEISTOCENE		CLAY & GRAVEL	26.1	1.0	
671.3	PLEISTOCENE		CLAY & GRAVEL	12.6	27.1	
658.7	PLEISTOCENE		CLAY, SAND & GRAVEL	13.0	39.7	
645.7	PLEISTOCENE		CLAY	3.5	52.7	
642.2			LIMESTONE	0.5	56.2	

MAPID: 05791639000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 11 / 21 / 1962

SURFACE ELEVATION (FT.): 699.8 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8004

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
699.8	PLEISTOCENE		SOIL	1.0	0.0	
698.8	PLEISTOCENE		CLAY & GRAVEL	22.9	1.0	YEL
675.9	PLEISTOCENE		CLAY & GRAVEL	8.0	23.9	GRAY
667.9	PLEISTOCENE		SAND & GRAVEL	11.6	31.9	
656.3	PLEISTOCENE		CLAY & GRAVEL	16.5	43.5	

MAPID: 0579164000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 11 / 21 / 1962

SURFACE ELEVATION (FT.): 700.1 LOGGED (FT.): 63.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8005 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.1	PLEISTOCENE		SOIL	1.0	0.0	
699.1	PLEISTOCENE		CLAY & GRAVEL	22.5	1.0	
676.6	PLEISTOCENE		CLAY	1.1	23.5	BOULD
675.5	PLEISTOCENE		CLAY & GRAVEL	21.1	24.6	
654.4	PLEISTOCENE			7.6	45.7	
646.8	PLEISTOCENE		CLAY	4.0	53.3	
642.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	57.3	SOFT
641.6	CARBONDALE	SPRINGFIELD	COAL	3.5	58.5	SOFT NO FLOAT
638.1	CARBONDALE		UNDERCLAY	1.0	62.0	

MAPID: 05791641000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 11 / 28 / 1962

SURFACE ELEVATION (FT.): 701.1 LOGGED (FT.): 63.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8032 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.1	PLEISTOCENE		SOIL	1.0	0.0	
700.1	PLEISTOCENE		CLAY & GRAVEL	26.1	1.0	
674.0	PLEISTOCENE		CLAY & GRAVEL	22.5	27.1	
651.5	PLEISTOCENE			10.0	49.6	
641.5	CARBONDALE	SPRINGFIELD	COAL	2.5	59.6	SOFT; TOP ERODED
639.0	CARBONDALE		UNDERCLAY	1.4	62.1	

MAPID: 05791642000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 11 / 29 / 1962

SURFACE ELEVATION (FT.): 700.3 LOGGED (FT.): 61.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8035

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.3	PLEISTOCENE		SOIL	1.0	0.0	
699.3	PLEISTOCENE		CLAY & GRAVEL	24.3	1.0	YEL
675.0	PLEISTOCENE		CLAY & GRAVEL	24.2	25.3	GRAY
650.8	PLEISTOCENE			8.2	49.5	
642.6	CARBONDALE	SPRINGFIELD	COAL	1.4	57.7	BLOOM; TOP ERODED
641.2	CARBONDALE	SPRINGFIELD	COAL	1.0	59.1	SOFT BROKEN
640.2	CARBONDALE		UNDERCLAY	1.0	60.1	

MAPID: 05791643000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 11 / 29 / 1962

SURFACE ELEVATION (FT.): 697.2 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8037

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.2	PLEISTOCENE		SOIL	1.0	0.0	
696.2	PLEISTOCENE		CLAY & GRAVEL	17.2	1.0	
679.0	PLEISTOCENE		CLAY	0.3	18.2	BOULD
678.7	PLEISTOCENE		CLAY & GRAVEL	21.0	18.5	
657.7	PLEISTOCENE		SAND & GRAVEL	15.4	39.5	
642.3	CARBONDALE	SPRINGFIELD	CLAY & COAL	3.0	54.9	BROKEN; TOP ERODED
639.3	CARBONDALE		UNDERCLAY	2.1	57.9	

MAPID: 05791644000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 11 / 30 / 1962

SURFACE ELEVATION (FT.): 694.6 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8039 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.6	PLEISTOCENE		SOIL	1.0	0.0	
693.6	PLEISTOCENE		CLAY	14.7	1.0	
678.9	PLEISTOCENE		CLAY & GRAVEL	24.0	15.7	
654.9	PLEISTOCENE		CLAY, SAND & GRAVEL	20.3	39.7	

MAPID: 05791645000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 11 / 30 / 1962

SURFACE ELEVATION (FT.): 692.6 LOGGED (FT.): 59.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8041 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
692.6	PLEISTOCENE		SOIL	1.0	0.0	
691.6	PLEISTOCENE		CLAY & GRAVEL	11.7	1.0	YEL
679.9	PLEISTOCENE		CLAY & GRAVEL	16.7	12.7	GRAY
663.2	PLEISTOCENE		SAND & GRAVEL	20.6	29.4	
642.6	PLEISTOCENE		CLAY & GRAVEL	9.4	50.0	

MAPID: 05791646000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 12 / 11 / 1962

SURFACE ELEVATION (FT.): 699.1 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8042 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
699.1	PLEISTOCENE		SOIL	1.0	0.0	
698.1	PLEISTOCENE		CLAY	21.1	1.0	
677.0	PLEISTOCENE		SAND & GRAVEL	13.3	22.1	
663.7	PLEISTOCENE		CLAY	3.4	35.4	BOULD
660.3	PLEISTOCENE		SAND & GRAVEL	20.8	38.8	
639.5	PLEISTOCENE		CLAY & GRAVEL	10.4	59.6	

MAPID: 05791647000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 12 / 1 / 1962

SURFACE ELEVATION (FT.): 696.4 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8044 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.4	PLEISTOCENE		SOIL	1.0	0.0	
695.4	PLEISTOCENE		CLAY & GRAVEL	19.8	1.0	YEL
675.6	PLEISTOCENE		CLAY & GRAVEL	19.2	20.8	GRAY
656.4	PLEISTOCENE		CLAY & GRAVEL	26.8	40.0	GREEN
629.6	PLEISTOCENE			3.2	66.8	

MAPID: 05791648000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 12 / 3 / 1962

SURFACE ELEVATION (FT.): 696.1 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8046 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.1	PLEISTOCENE		SOIL	1.0	0.0	
695.1	PLEISTOCENE		CLAY & GRAVEL	14.8	1.0	
680.3	PLEISTOCENE		CLAY & GRAVEL	34.6	15.8	
645.7	PLEISTOCENE		CLAY	9.7	50.4	
636.0			GRAY SHALE	4.9	60.1	

MAPID: 05791649000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 12 / 3 / 1962

SURFACE ELEVATION (FT.): 703.7 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8048

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.7	PLEISTOCENE		SOIL	1.0	0.0	
702.7	PLEISTOCENE		CLAY & GRAVEL	23.4	1.0	YEL
679.3	PLEISTOCENE		CLAY & GRAVEL	5.1	24.4	GRAY
674.2	PLEISTOCENE		CLAY	14.0	29.5	AND BOULDERS
660.2	PLEISTOCENE		CLAY & GRAVEL	25.5	43.5	
634.7			GRAY SHALE	1.0	69.0	

MAPID: 05791650000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 12 / 4 / 1962

SURFACE ELEVATION (FT.): 703.7 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8049

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.7	PLEISTOCENE		SOIL	1.0	0.0	
702.7	PLEISTOCENE		CLAY & GRAVEL	25.9	1.0	YEL
676.8	PLEISTOCENE		CLAY & GRAVEL	27.6	26.9	GRAY
649.2	PLEISTOCENE		CLAY & GRAVEL	13.6	54.5	GREEN
635.6			GRAY SHALE	1.9	68.1	

MAPID: 05791651000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 12 / 5 / 1962

SURFACE ELEVATION (FT.): 702.7 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8051

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.7	PLEISTOCENE		SOIL	1.0	0.0	
701.7	PLEISTOCENE		CLAY & GRAVEL	20.9	1.0	YEL
680.8	PLEISTOCENE		CLAY & GRAVEL	4.4	21.9	GRAY
676.4	PLEISTOCENE		CLAY	1.0	26.3	BOULD
675.4	PLEISTOCENE		CLAY & GRAVEL	24.5	27.3	GRAY
650.9	PLEISTOCENE		CLAY & GRAVEL	15.9	51.8	GREEN
635.0			GRAY SHALE	2.3	67.7	

MAPID: 05791652000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 12 / 6 / 1962

SURFACE ELEVATION (FT.): 701.0 LOGGED (FT.): 63.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8052

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.0	PLEISTOCENE		SOIL	1.0	0.0	
700.0	PLEISTOCENE		CLAY & GRAVEL	24.6	1.0	YEL
675.4	PLEISTOCENE		CLAY & GRAVEL	4.0	25.6	GRAY
671.4	PLEISTOCENE		SAND & GRAVEL	13.7	29.6	
657.7	PLEISTOCENE			8.8	43.3	
648.9	CARBONDALE		GRAY SHALE	2.8	52.1	SOFT
646.1	CARBONDALE	TURNER MINE	DARK SHALE	1.5	54.9	
644.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	56.4	
643.4	CARBONDALE	SPRINGFIELD	COAL	3.7	57.6	
639.7			UNDERCLAY	1.8	61.3	

MAPID: 05791653000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 12 / 6 / 1962
SURFACE ELEVATION (FT.): 702.9 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 8053 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.9	PLEISTOCENE		SOIL	1.0	0.0	
701.9	PLEISTOCENE		CLAY & GRAVEL	18.7	1.0	YEL
683.2	PLEISTOCENE		CLAY	1.4	19.7	BOULD
681.8	PLEISTOCENE		CLAY & GRAVEL	3.6	21.1	YEL
678.2	PLEISTOCENE		CLAY & GRAVEL	16.2	24.7	GRAY
662.0	PLEISTOCENE		SAND & GRAVEL	8.0	40.9	
654.0	PLEISTOCENE			3.9	48.9	
650.1	PLEISTOCENE		CLAY & GRAVEL	10.8	52.8	
639.3	CARBONDALE	SPRINGFIELD	CLAY & COAL	1.0	63.6	TOP ERODED
638.3	CARBONDALE		CLAYSTONE	2.1	64.6	
636.2	CARBONDALE		GRAY SHALE	3.3	66.7	

MAPID: 05791654000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 12 / 6 / 1962
SURFACE ELEVATION (FT.): 704.2 LOGGED (FT.): 63.5 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 8054 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.2	PLEISTOCENE		SOIL	1.0	0.0	
703.2	PLEISTOCENE		CLAY & GRAVEL	24.6	1.0	
678.6	PLEISTOCENE		CLAY & GRAVEL	28.7	25.6	
649.9	PLEISTOCENE		CLAY	4.5	54.3	
645.4	CARBONDALE	SPRINGFIELD	COAL	3.5	58.8	BLOOM; TOP ERODED
641.9	CARBONDALE		UNDERCLAY	1.2	62.3	

MAPID: 05791655000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 12 / 7 / 1962

SURFACE ELEVATION (FT.): 704.1 LOGGED (FT.): 68.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8056

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.1	PLEISTOCENE		SOIL	1.0	0.0	
703.1	PLEISTOCENE		CLAY & GRAVEL	22.0	1.0	YEL
681.1	PLEISTOCENE		CLAY & GRAVEL	14.1	23.0	GRAY
667.0	PLEISTOCENE		CLAY, SAND & GRAVEL	17.5	37.1	
649.5	PLEISTOCENE			10.2	54.6	
639.3			GRAY SHALE	4.0	64.8	

MAPID: 05791656000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 12 / 8 / 1962

SURFACE ELEVATION (FT.): 705.3 LOGGED (FT.): 63.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8058

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.3	PLEISTOCENE		SOIL	1.0	0.0	
704.3	PLEISTOCENE		CLAY & GRAVEL	17.3	1.0	
687.0	PLEISTOCENE		CLAY	1.5	18.3	BOULD
685.5	PLEISTOCENE		CLAY & GRAVEL	7.4	19.8	
678.1	PLEISTOCENE		CLAY & GRAVEL	24.7	27.2	
653.4	PLEISTOCENE			7.2	51.9	
646.2	CARBONDALE	SPRINGFIELD	COAL	2.2	59.1	BLOOM; TOP ERODED
644.0	CARBONDALE	SPRINGFIELD	COAL	0.7	61.3	VERY
643.3	CARBONDALE		UNDERCLAY	1.5	62.0	

MAPID: 05791657000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 12 / 10 / 1962

SURFACE ELEVATION (FT.): 705.6 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8061 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.6	PLEISTOCENE		SOIL	1.0	0.0	
704.6	PLEISTOCENE		CLAY & GRAVEL	26.1	1.0	YEL
678.5	PLEISTOCENE		CLAY & GRAVEL	20.3	27.1	GRAY
658.2	PLEISTOCENE		CLAY	11.3	47.4	
646.9	CARBONDALE		SHALE	1.2	58.7	VERY SOFT
645.7	CARBONDALE	SPRINGFIELD	COAL	3.6	59.9	SOFT
642.1	CARBONDALE		UNDERCLAY	1.5	63.5	
640.6	CARBONDALE		GRAY SHALE	5.0	65.0	

MAPID: 05791658000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 12 / 10 / 1962

SURFACE ELEVATION (FT.): 705.2 LOGGED (FT.): 68.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8062 WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.2	PLEISTOCENE		SOIL	1.0	0.0	
704.2	PLEISTOCENE		CLAY & GRAVEL	25.5	1.0	
678.7	PLEISTOCENE		CLAY & GRAVEL	26.3	26.5	
652.4	PLEISTOCENE			5.5	52.8	
646.9	CARBONDALE	SPRINGFIELD	COAL	1.0	58.3	BLOOM; TOP ERODED
645.9	CARBONDALE	SPRINGFIELD	COAL	2.6	59.3	VERY SOFT
643.3	CARBONDALE		UNDERCLAY	2.1	61.9	
641.2	CARBONDALE		GRAY SHALE	4.0	64.0	

MAPID: 05791659000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 12 / 14 / 1962

SURFACE ELEVATION (FT.): 705.5 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8065

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
705.5	PLEISTOCENE		SOIL	1.0	0.0
704.5	PLEISTOCENE		CLAY	21.7	1.0
682.8	PLEISTOCENE		CLAY & GRAVEL	33.6	22.7
649.2	PLEISTOCENE			11.6	56.3
637.6			GRAY SHALE	2.1	67.9

MAPID: 05791705000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 3 / 13 / 1937

SURFACE ELEVATION (FT.): 683.0 LOGGED (FT.): 50.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 188

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
683.0	PLEISTOCENE		CLAY	20.4	0.0
662.6	PLEISTOCENE		CLAY	0.9	20.4 YEL
661.6	PLEISTOCENE			28.8	21.4

MAPID: 05791706000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 3 / 11 / 1937

SURFACE ELEVATION (FT.): 623.0 LOGGED (FT.): 16.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 194

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
623.0	PLEISTOCENE		CLAY	16.7	0.0

MAPID: 05791707000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 3 / 24 / 1936

SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 40.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 204

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0	PLEISTOCENE		CLAY	25.3	0.0	
629.7	PLEISTOCENE		CLAY	0.9	25.3	YEL
628.8	PLEISTOCENE		CLAY	6.7	26.2	GRAY SOFT
622.1	PLEISTOCENE		CLAY	2.2	32.9	GRAY HARD
620.0	PLEISTOCENE		CLAY	0.8	35.0	DK GRAY
619.2	CARBONDALE		LIMESTONE	0.6	35.8	
618.6	CARBONDALE		CLAYSTONE	0.2	36.4	
618.4	CARBONDALE		LIMESTONE	0.8	36.6	
617.6	CARBONDALE		GRAY SHALE	3.2	37.4	

MAPID: 05791708000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676957

DATE COLLECTED: 3 / 25 / 1937

SURFACE ELEVATION (FT.): 668.0 LOGGED (FT.): 42.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 205

WELL TYPE: Coal Test

COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.0	PLEISTOCENE		CLAY	17.4	0.0	
650.6	PLEISTOCENE			25.4	17.4	

MAPID: 05791709000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 3 / 13 / 1937
SURFACE ELEVATION (FT.): 673.0 LOGGED (FT.): 56.2 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 207 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
673.0	PLEISTOCENE		CLAY	20.1	0.0	
652.9	PLEISTOCENE			6.4	20.1	
646.5	PLEISTOCENE		SAND & GRAVEL	13.7	26.5	
632.8	PLEISTOCENE		SAND & GRAVEL	5.5	40.2	GRAY
627.4	PLEISTOCENE		CLAY	1.5	45.6	
625.9	CARBONDALE		GRAY SHALE	0.9	47.1	
625.1	CARBONDALE		LIMESTONE	1.2	47.9	
623.9	CARBONDALE		ARGILACEOUS SHALE	2.4	49.1	
621.5	CARBONDALE		CLAYSTONE	4.8	51.5	

MAPID: 05791710000C VERSION: 1

PROJECT: NCRDS 00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 14 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129718 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.676957 DATE COLLECTED: 3 / 18 / 1937
SURFACE ELEVATION (FT.): 697.0 LOGGED (FT.): 62.1 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 210 WELL TYPE: Coal Test
COMMENT: LOC IMPRECISE, ACCURATE TO CENTER SEC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.0	PLEISTOCENE		CLAY	20.1	0.0	
676.9	PLEISTOCENE			42.0	20.1	

MAPID: 05700705000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 15 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.153391 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.669629 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 692.0 LOGGED (FT.): 60.8 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
692.0			UNCONSOLIDATED	19.0	0.0	
673.0	CARBONDALE		SANDY SHALE	4.0	19.0	
669.0	CARBONDALE		SANDSTONE	11.0	23.0	"SD + GVL"
658.0	CARBONDALE		GRAY SHALE	10.0	34.0	
648.0	CARBONDALE		SANDSTONE	3.3	44.0	
644.7	CARBONDALE		SHALE	13.0	47.3	
631.7	CARBONDALE	HOUCHIN CREEK	COAL	0.4	60.3	"BLOSSOM"

MAPID: 05784811000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 15 QUARTERS/FOOTAGES:
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.152446 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.669682 DATE COLLECTED: 6 / 19 / 1961
 SURFACE ELEVATION (FT.): 695.4 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log
 SOURCE: MIDLAND COAL CO. FARMWEST 7148 WELL TYPE: Coal Test
 COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.4	PLEISTOCENE		CLAY	27.8	0.0	
667.6	PLEISTOCENE		SAND & GRAVEL	17.0	27.8	
650.6	PLEISTOCENE		SAND	5.1	44.8	
645.5	PLEISTOCENE		SANDY CLAY	13.7	49.9	
631.8	CARBONDALE		GRAY SHALE	1.3	63.6	
630.5	CARBONDALE		CALCAREOUS SHALE	18.7	64.9	
611.8	CARBONDALE		LIMESTONE	0.3	83.6	
611.5	CARBONDALE		GRAY SHALE	16.1	83.9	

MAPID: 05784812000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 15 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.155013

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669839

DATE COLLECTED: 6 / 21 / 1961

SURFACE ELEVATION (FT.): 688.7 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7150

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.7	PLEISTOCENE		CLAY & GRAVEL	30.2	0.0
658.5	PLEISTOCENE		SANDY CLAY	33.4	30.2
625.1	CARBONDALE		GRAY SHALE	4.9	63.6
620.2	CARBONDALE		LIMESTONE	1.4	68.5
618.8	CARBONDALE		GRAY SHALE	17.8	69.9
601.0	CARBONDALE		GRAY SHALE	4.0	87.7
597.0	CARBONDALE		CALCAREOUS SHALE	8.3	91.7

MAPID: 05700708000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 16 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW SW SE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.16534

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.669547

DATE COLLECTED:

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 24.0

LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
670.0			UNCONSOLIDATED	10.0	0.0
660.0	CARBONDALE		SANDY SHALE	12.0	10.0
648.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	22.0 "ROTTEN"

MAPID: 05784506000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163923

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669497

DATE COLLECTED: 6 / 20 / 1961

SURFACE ELEVATION (FT.): 652.9 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 7149

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
652.9	PLEISTOCENE		CLAY	5.9	0.0	
647.0	PLEISTOCENE		BOULDER	0.5	5.9	
646.5	CARBONDALE		GRAY SHALE	10.8	6.4	SOFT
635.7	CARBONDALE		LIMESTONE	0.3	17.2	
635.4	CARBONDALE		GRAY SHALE	4.0	17.5	
631.4	CARBONDALE	TURNER MINE	DARK SHALE	0.5	21.5	
630.9	CARBONDALE	SPRINGFIELD	COAL	1.0	22.0	SOFT
629.9	CARBONDALE		UNDERCLAY	1.5	23.0	
628.4	CARBONDALE		GRAY SHALE	4.0	24.5	
624.4	CARBONDALE		LIMESTONE	1.6	28.5	
622.8	CARBONDALE		GRAY SHALE	39.9	30.1	

MAPID: 05786599000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 16 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167669

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673154

DATE COLLECTED: 2 / 2 / 1950

SURFACE ELEVATION (FT.): 594.3 LOGGED (FT.): 48.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A71

WELL TYPE: Coal Test

COMMENT: N FLAMINGO FIELD BOX 47

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
594.3	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0	
579.3	PLEISTOCENE		SAND & GRAVEL	10.0	15.0	
569.3	CARBONDALE		SANDSTONE	16.5	25.0	
552.8	CARBONDALE	COLCHESTER	COAL	2.0	41.5	FAIR; TOP POSSIBLY ERODED
550.8	CARBONDALE		UNDERCLAY	2.5	43.5	
548.3	CARBONDALE		SANDSTONE	2.0	46.0	

MAPID: 05786870000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 17 QUARTERS/FOOTAGES: 660' S line, 0' E line of SW SE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.182057 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671254 DATE COLLECTED: 1 / 5 / 1961

SURFACE ELEVATION (FT.): 583.9 LOGGED (FT.): 32.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE S38 WELL TYPE: Coal Test

COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
583.9	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0
573.9	PLEISTOCENE		CLAY	2.0	10.0
571.9	PLEISTOCENE		SAND	2.0	12.0
569.9	CARBONDALE		BLACK SHALE	3.6	14.0
566.3	CARBONDALE		LIMESTONE	0.9	17.6
565.4	CARBONDALE		BLACK SHALE	6.9	18.5
558.5	CARBONDALE		BLACK SHALE	2.9	25.4
555.6	CARBONDALE		COAL	1.9	28.3
553.6	CARBONDALE		UNDERCLAY	1.8	30.3

MAPID: 05786872000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 17 QUARTERS/FOOTAGES: NE SE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.179597 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674916 DATE COLLECTED: 1 / 5 / 1961

SURFACE ELEVATION (FT.): 554.9 LOGGED (FT.): 120.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE S117 WELL TYPE: Coal Test

COMMENT: WEST FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
554.9	PLEISTOCENE		UNCONSOLIDATED	16.0	0.0
538.9	PLEISTOCENE		SAND & GRAVEL	12.0	16.0
526.9			DARK SHALE	4.0	28.0
522.9			SHALE	11.0	32.0
511.9			SANDY SHALE	5.0	43.0
506.9			SANDSTONE	3.0	48.0 SOFT
503.9			SHALE	7.0	51.0 SOFT
496.9			SANDY SHALE	2.0	58.0
494.9			DARK SHALE	33.0	60.0
461.9			SHALE	4.0	93.0 SOFT
457.9			BLACK SHALE	14.0	97.0
443.9			BLACK SHALE	1.5	111.0
442.4			GRAY SHALE	4.3	112.5
438.1			COAL	1.6	116.8 #1?
436.6			UNDERCLAY	1.7	118.3

MAPID: 05786568000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 18 QUARTERS/FOOTAGES: 1' N line, 1' E line of SE SW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.205505 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.673052 DATE COLLECTED: 1 / 2 / 1961
 SURFACE ELEVATION (FT.): 660.9 LOGGED (FT.): 107.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE S55 WELL TYPE: Coal Test
 COMMENT: WEST FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.9	PLEISTOCENE		UNCONSOLIDATED	27.0	0.0	
633.9	PLEISTOCENE		CLAY	4.0	27.0	
629.9	CARBONDALE		SANDY SHALE	4.0	31.0	GREEN
625.9	CARBONDALE		SANDY SHALE	35.0	35.0	
590.9	CARBONDALE		SANDY SHALE	10.0	70.0	HARD
580.9	CARBONDALE		SANDSTONE	6.3	80.0	
574.6	CARBONDALE		SANDY SHALE	2.7	86.3	DARK
571.9	CARBONDALE		BLACK SHALE	3.4	89.0	
568.5	CARBONDALE		ROCK	1.6	92.4	
566.9	CARBONDALE		BLACK SHALE	3.0	94.0	HARD
563.9	CARBONDALE		GRAY SHALE	7.0	97.0	SOFT
556.9	CARBONDALE	COLCHESTER	COAL	2.0	104.0	
554.9	CARBONDALE		UNDERCLAY	1.0	106.0	

MAPID: 05786869000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 18 QUARTERS/FOOTAGES: 730' N line, 0' W line of SW SW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.214804 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.671066 DATE COLLECTED: 10 / 31 / 1960
 SURFACE ELEVATION (FT.): 615.2 LOGGED (FT.): 49.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE S28 WELL TYPE: Coal Test
 COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
615.2	PLEISTOCENE		CLAY	4.0	0.0	
611.2	PLEISTOCENE		CLAY	8.0	4.0	
603.2	PLEISTOCENE		CLAY	19.0	12.0	
584.2	CARBONDALE		DARK SHALE	10.0	31.0	
574.2	CARBONDALE		ROCK	1.0	41.0	SOFT
573.2	CARBONDALE		BLACK SHALE	2.0	42.0	
571.2	CARBONDALE		GRAY SHALE	2.0	44.0	
569.2	CARBONDALE	COLCHESTER	COAL	1.8	46.0	GOOD
567.4	CARBONDALE		UNDERCLAY	1.3	47.8	

MAPID: 05786871000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 18 QUARTERS/FOOTAGES: NW SE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.203139 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674868 DATE COLLECTED: 10 / 31 / 1960

SURFACE ELEVATION (FT.): 654.4 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE S107 WELL TYPE: Coal Test

COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.4	PLEISTOCENE		CLAY	15.0	0.0	
639.4	PLEISTOCENE		CLAY	10.0	15.0	
629.4	PLEISTOCENE		CLAY	10.0	25.0	
619.4	CARBONDALE		SHALE	10.0	35.0	SOFT
609.4	CARBONDALE		SHALE	25.0	45.0	HARD
584.4	CARBONDALE		BLACK SHALE	5.0	70.0	SOFT
579.4	CARBONDALE		BLACK SHALE	3.0	75.0	
576.4	CARBONDALE		SHALE	6.0	78.0	SOFT
570.4	CARBONDALE		COAL	1.8	84.0	GOOD
568.6	CARBONDALE		UNDERCLAY	1.2	85.8	

MAPID: 05700710000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 19 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.210977 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.654836 DATE COLLECTED: 0 / 0 / 1928

SURFACE ELEVATION (FT.): 679.1 LOGGED (FT.): 21.3 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.1			UNCONSOLIDATED	12.0	0.0	
667.1	CARBONDALE		SANDY SHALE	7.0	12.0	
660.1	CARBONDALE	SPRINGFIELD	COAL	2.3	19.0	WX

MAPID: 05700711000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 19 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.206196 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.65487 DATE COLLECTED: 0 / 0 / 1928

SURFACE ELEVATION (FT.): 695.0 LOGGED (FT.): 28.4 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.0			UNCONSOLIDATED	15.0	0.0	
680.0	CARBONDALE		SANDY SHALE	3.5	15.0	
676.5	CARBONDALE		SANDSTONE	4.8	18.5	SAND AND GRAVEL
671.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.8	23.3	FISSILE
669.0	CARBONDALE	SPRINGFIELD	COAL	2.4	26.0	

MAPID: 05700713000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 19 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.201414 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.654903 DATE COLLECTED: 0 / 0 / 1928

SURFACE ELEVATION (FT.): 698.2 LOGGED (FT.): 41.0 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.2			UNCONSOLIDATED	22.0	0.0	
676.2	CARBONDALE		SHALE	9.6	22.0	
666.6	CARBONDALE		SANDSTONE	1.2	31.6	
665.4	CARBONDALE	TURNER MINE	BLACK SHALE	4.0	32.8	FISSILE
661.4	CARBONDALE	SPRINGFIELD	COAL	4.3	36.8	

MAPID: 05700714000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 19 QUARTERS/FOOTAGES: 0' S line, 0' W line of NE SW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.210779 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.658484 DATE COLLECTED: 0 / 0 / 1928
 SURFACE ELEVATION (FT.): 677.1 LOGGED (FT.): 60.8 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.1			UNCONSOLIDATED	14.0	0.0	
663.1	CARBONDALE		SANDY SHALE	6.0	14.0	
657.1	CARBONDALE		GRAY SHALE	10.5	20.0	
646.6	CARBONDALE	SPRINGFIELD	COAL	0.8	30.5	
645.8	CARBONDALE		SHALE	4.2	31.3	
641.6	CARBONDALE		SANDSTONE	13.5	35.5	
628.1	CARBONDALE		GRAY SHALE	11.0	49.0	
617.1	CARBONDALE	HOUCHIN CREEK	COAL	0.8	60.0	

MAPID: 05700715000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 19 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.206037 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.65851 DATE COLLECTED: 0 / 0 / 1928
 SURFACE ELEVATION (FT.): 684.0 LOGGED (FT.): 53.2 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.0			UNCONSOLIDATED	14.0	0.0	
670.0	CARBONDALE		SHALE	28.5	14.0	SDY IN UPR 2/3
641.5	CARBONDALE		SANDSTONE	1.0	42.5	
640.5	CARBONDALE		SHALE	1.5	43.5	BLUE
639.0	CARBONDALE		GRAY SHALE	3.0	45.0	
636.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	48.0	FISSILE
635.5	CARBONDALE	SPRINGFIELD	COAL	4.7	48.5	

MAPID: 05700717000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 19 QUARTERS/FOOTAGES: 0' S line, 0' W line of NE SE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.201295 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.658535 DATE COLLECTED: 0 / 0 / 1928
 SURFACE ELEVATION (FT.): 693.9 LOGGED (FT.): 30.2 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.9			UNCONSOLIDATED	20.0	0.0	
673.9	CARBONDALE		SHALE	5.0	20.0	SDY IN UPR 1/2
668.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	25.0	FISSILE
667.9	CARBONDALE	SPRINGFIELD	COAL	4.2	26.0	

MAPID: 05760027000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 19 QUARTERS/FOOTAGES: 0' N line, 0' W line of NW SE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.205875 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.66215 DATE COLLECTED: 0 / 0 / 1949
 SURFACE ELEVATION (FT.): 681.0 LOGGED (FT.): 52.7 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.0	CARBONDALE	SPRINGFIELD	COAL	4.7	48.0	

MAPID: 05786566000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 19 QUARTERS/FOOTAGES: 660' S line, 660' E line of NW SW
 QUADRANGLE: AVENA LONGITUDE: -88.915449 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 39.120649 DATE COLLECTED: 10 / 24 / 1960
 SURFACE ELEVATION (FT.): 654.9 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE R477 WELL TYPE: Coal Test
 COMMENT: WEST FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.9	PLEISTOCENE		UNCONSOLIDATED	13.0	0.0	
641.9	PLEISTOCENE		CLAY	9.0	13.0	
632.9	CARBONDALE		SANDY SHALE	58.0	22.0	SOFT
574.9	CARBONDALE		BLACK SHALE	2.0	80.0	
572.9	CARBONDALE		DARK SHALE	8.0	82.0	SOFT
564.9	CARBONDALE		LIMESTONE	2.0	90.0	VERY HARD CAP ROCK
562.9	CARBONDALE		BLACK SHALE	2.0	92.0	HARD
560.9	CARBONDALE		SANDY SHALE	3.0	94.0	
557.9	CARBONDALE	COLCHESTER	COAL	1.8	97.0	GOOD
556.1	CARBONDALE		UNDERCLAY	1.2	98.8	

MAPID: 05786865000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 19 QUARTERS/FOOTAGES: 660' N line, 0' E line of NW SW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.210153 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.660328 DATE COLLECTED: 10 / 18 / 1960
 SURFACE ELEVATION (FT.): 573.0 LOGGED (FT.): 37.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE J500 WELL TYPE: Coal Test
 COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
573.0	PLEISTOCENE		CLAY	10.0	0.0	
563.0	PLEISTOCENE		CLAY	10.0	10.0	
553.0	CARBONDALE		SHALE	5.0	20.0	SOFT
548.0	CARBONDALE		BLACK SHALE	1.0	25.0	
547.0	CARBONDALE		SHALE	8.0	26.0	SOFT
539.0	CARBONDALE		COAL	1.2	34.0	SOFT #5
537.8	CARBONDALE		UNDERCLAY	1.8	35.2	

MAPID: 05786867000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 19 QUARTERS/FOOTAGES: NW NW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.212478 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.667609 DATE COLLECTED: 10 / 25 / 1960
 SURFACE ELEVATION (FT.): 595.8 LOGGED (FT.): 22.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE R553 WELL TYPE: Coal Test
 COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
595.8	PLEISTOCENE		CLAY	4.0	0.0	
591.8	PLEISTOCENE		CLAY	8.0	4.0	
583.8	CARBONDALE		BLACK SHALE	2.0	12.0	SOFT
581.8	CARBONDALE		MICACEOUS SHALE	5.0	14.0	SOFT
576.8	CARBONDALE	COLCHESTER	COAL	2.0	19.0	FAIR
574.8	CARBONDALE		UNDERCLAY	1.0	21.0	

MAPID: 05786868000C VERSION: 1

PROJECT: OMM02

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 19 QUARTERS/FOOTAGES: 660' S line, 660' W line of NE NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.198572 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667608 DATE COLLECTED: 1 / 3 / 1961

SURFACE ELEVATION (FT.): 578.0 LOGGED (FT.): 36.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE R583 WELL TYPE: Coal Test

COMMENT: W FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
578.0	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0	
574.0	PLEISTOCENE		CLAY	9.0	4.0	
565.0	PLEISTOCENE			4.0	13.0	
561.0	CARBONDALE		SANDY SHALE	7.0	17.0	
554.0	CARBONDALE		DARK SHALE	6.0	24.0	
548.0	CARBONDALE		MICACEOUS SHALE	2.0	30.0	
546.0	CARBONDALE	COLCHESTER	COAL	1.2	32.0	SOFT
544.8	CARBONDALE		UNDERCLAY	2.8	33.2	

MAPID: 05700721000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 20 QUARTERS/FOOTAGES: 0' S line, 0' W line

QUADRANGLE: FAIRVIEW LONGITUDE: -90.196633 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.654937 DATE COLLECTED: 0 / 0 / 1928

SURFACE ELEVATION (FT.): 703.2 LOGGED (FT.): 45.7 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.2			UNCONSOLIDATED	18.0	0.0	
685.2	CARBONDALE		SANDY SHALE	3.0	18.0	
682.2	CARBONDALE		SHALE	16.6	21.0	BLUE
665.6	CARBONDALE		SANDSTONE	1.1	37.6	
664.5	CARBONDALE		SHALE	1.3	38.7	BLUE
663.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	39.9	FISSILE
662.3	CARBONDALE	SPRINGFIELD	COAL	4.8	40.9	

MAPID: 05700722000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 20 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.191898 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.654956 DATE COLLECTED: 0 / 0 / 1928
 SURFACE ELEVATION (FT.): 711.7 LOGGED (FT.): 68.8 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.7			UNCONSOLIDATED	20.0	0.0	
691.7	CARBONDALE		SHALE	32.8	20.0	GY,SDY
658.9	CARBONDALE		SANDSTONE	9.3	52.8	
649.6	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	62.1	FISSILE
647.6	CARBONDALE	SPRINGFIELD	COAL	4.7	64.1	

MAPID: 05700723000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 20 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.187164 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.654975 DATE COLLECTED: 0 / 0 / 1928
 SURFACE ELEVATION (FT.): 720.7 LOGGED (FT.): 56.3 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.7			UNCONSOLIDATED	26.5	0.0	
694.2	CARBONDALE		SANDY SHALE	19.5	26.5	
674.7	CARBONDALE		SANDSTONE	4.0	46.0	
670.7	CARBONDALE		ROCK	0.5	50.0	"MUCK"
670.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	50.5	FISSILE
668.7	CARBONDALE	SPRINGFIELD	COAL	4.3	52.0	

MAPID: 05700724000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 20 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.182426 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.654994 DATE COLLECTED: 0 / 0 / 1928
 SURFACE ELEVATION (FT.): 718.8 LOGGED (FT.): 42.8 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.8			UNCONSOLIDATED	25.0	0.0	
693.8	CARBONDALE		SHALE	8.0	25.0	
685.8	CARBONDALE		SANDSTONE	2.0	33.0	
683.8	CARBONDALE	TURNER MINE	SHALE	3.0	35.0	
680.8	CARBONDALE	SPRINGFIELD	COAL	4.8	38.0	

MAPID: 05700726000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 20 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.19655 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.658557 DATE COLLECTED: 0 / 0 / 1928
 SURFACE ELEVATION (FT.): 694.6 LOGGED (FT.): 16.4 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.6			UNCONSOLIDATED	12.5	0.0	
682.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	12.5	FISSILE
681.3	CARBONDALE	SPRINGFIELD	COAL	3.1	13.3	

MAPID: 05700728000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 20 QUARTERS/FOOTAGES: SW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.191815 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.658573 DATE COLLECTED: 0 / 0 / 1928
 SURFACE ELEVATION (FT.): 703.8 LOGGED (FT.): 35.0 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.8			UNCONSOLIDATED	16.0	0.0	
687.8	CARBONDALE		SANDY SHALE	11.5	16.0	
676.3	CARBONDALE		SANDSTONE	0.5	27.5	
675.8	CARBONDALE		SANDY SHALE	1.0	28.0	
674.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	29.0	FISSILE
672.8	CARBONDALE	SPRINGFIELD	COAL	4.0	31.0	

MAPID: 05700731000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 20 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.18708 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.65859 DATE COLLECTED: 0 / 0 / 1928
 SURFACE ELEVATION (FT.): 711.0 LOGGED (FT.): 26.0 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.0			UNCONSOLIDATED	12.0	0.0	
699.0	CARBONDALE		SANDY SHALE	8.0	12.0	
691.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	20.0	FISSILE
689.0	CARBONDALE	SPRINGFIELD	COAL	4.0	22.0	

MAPID: 05700732000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 20 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.196467 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.662177 DATE COLLECTED: 0 / 0 / 1928
 SURFACE ELEVATION (FT.): 690.3 LOGGED (FT.): 25.8 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.3			UNCONSOLIDATED	17.0	0.0	
673.3	CARBONDALE		SHALE	7.0	17.0	
666.3	CARBONDALE	SPRINGFIELD	COAL	1.8	24.0	

MAPID: 05700733000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 20 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.191735 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.662191 DATE COLLECTED: 0 / 0 / 1928
 SURFACE ELEVATION (FT.): 690.6 LOGGED (FT.): 20.1 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.6			UNCONSOLIDATED	10.0	0.0	
680.6	CARBONDALE		SHALE	9.0	10.0	
671.6	CARBONDALE	SPRINGFIELD	COAL	1.1	19.0	

MAPID: 05700735000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 20 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.182265 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.662218 DATE COLLECTED: 0 / 0 / 1928
 SURFACE ELEVATION (FT.): 672.9 LOGGED (FT.): 34.1 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.9			UNCONSOLIDATED	13.0	0.0	
659.9	CARBONDALE		SANDY SHALE	8.5	13.0	
651.4	CARBONDALE		SANDSTONE	6.0	21.5	
645.4	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	27.5	FISSILE
642.4	CARBONDALE	SPRINGFIELD	COAL	3.6	30.5	

MAPID: 05760028000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 20 QUARTERS/FOOTAGES: SE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.182345 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.658606 DATE COLLECTED: 0 / 0 / 1949
 SURFACE ELEVATION (FT.): 708.3 LOGGED (FT.): 41.6 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.3	CARBONDALE	SPRINGFIELD	COAL	4.6	37.0	

MAPID: 05760030000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 20 QUARTERS/FOOTAGES:
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.187 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.662204 DATE COLLECTED: 0 / 0 / 1949
 SURFACE ELEVATION (FT.): 696.7 LOGGED (FT.): 17.5 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.7	CARBONDALE	SPRINGFIELD	COAL	2.5	15.0	

MAPID: 05700737000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 21 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.163542 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.655092 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 727.4 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.4			UNCONSOLIDATED	20.0	0.0	
707.4	CARBONDALE		SANDY SHALE	48.0	20.0	
659.4	CARBONDALE	SPRINGFIELD	COAL	0.0	68.0	NO THICKNESS REPORTED

MAPID: 05700738000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 21 QUARTERS/FOOTAGES: 0' S line, 0' W line
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.177691 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.655013 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 701.4 LOGGED (FT.): 33.0 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.4			UNCONSOLIDATED	9.0	0.0	
692.4	CARBONDALE		SHALE	16.0	9.0	SDY UPR 3/4
676.4	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	25.0	FISSILE
673.4	CARBONDALE	SPRINGFIELD	COAL	5.0	28.0	

MAPID: 05700740000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 21 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.172975 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.655039 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 700.2 LOGGED (FT.): 34.2 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.2			UNCONSOLIDATED	7.0	0.0	
693.2	CARBONDALE		SHALE	25.5	7.0	
667.7	CARBONDALE	SPRINGFIELD	COAL	1.7	32.5	

MAPID: 05700745000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 21 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.177611 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.658622 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 696.8 LOGGED (FT.): 19.2 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.8			UNCONSOLIDATED	14.0	0.0	
682.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	14.0	FISSILE
680.8	CARBONDALE	SPRINGFIELD	COAL	3.2	16.0	

MAPID: 05700746000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 21 QUARTERS/FOOTAGES: SW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.172872 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.658651 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 713.2 LOGGED (FT.): 49.6 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.2			UNCONSOLIDATED	17.0	0.0	
696.2	CARBONDALE		SHALE	26.0	17.0	
670.2	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	43.0	FISSILE
668.2	CARBONDALE	SPRINGFIELD	COAL	4.6	45.0	

MAPID: 05700747000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 21 QUARTERS/FOOTAGES: SE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.163389 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.658704 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 718.0 LOGGED (FT.): 73.3 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.0			UNCONSOLIDATED	15.0	0.0	
703.0	CARBONDALE		SHALE	50.0	15.0	SDY UPR 1/4
653.0	CARBONDALE		SANDSTONE	1.0	65.0	
652.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	66.0	FISSILE
650.0	CARBONDALE	SPRINGFIELD	COAL	5.3	68.0	

MAPID: 05700750000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 21 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.177534 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.662231 DATE COLLECTED:

SURFACE ELEVATION (FT.): 692.9 LOGGED (FT.): 40.4 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
692.9			UNCONSOLIDATED	15.0	0.0	
677.9	CARBONDALE		SHALE	15.5	15.0	
662.4	CARBONDALE		SANDSTONE	1.0	30.5	
661.4	CARBONDALE		SHALE	3.0	31.5	
658.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	34.5	FISSILE
656.4	CARBONDALE	SPRINGFIELD	COAL	3.9	36.5	

MAPID: 05700751000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 21 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.172766 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.662261 DATE COLLECTED:

SURFACE ELEVATION (FT.): 701.2 LOGGED (FT.): 49.8 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.2			UNCONSOLIDATED	18.0	0.0	
683.2	CARBONDALE		SANDY SHALE	27.0	18.0	
656.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	45.0	FISSILE
655.2	CARBONDALE	SPRINGFIELD	COAL	3.8	46.0	

MAPID: 05700753000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 21 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163238 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.662319 DATE COLLECTED:

SURFACE ELEVATION (FT.): 677.6 LOGGED (FT.): 21.0 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.6			UNCONSOLIDATED	7.0	0.0	
670.6	CARBONDALE		SHALE	8.0	7.0	
662.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	15.0	FISSILE
661.1	CARBONDALE	SPRINGFIELD	COAL	4.5	16.5	

MAPID: 05700754000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 21 QUARTERS/FOOTAGES: NW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.172664 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.665872 DATE COLLECTED:

SURFACE ELEVATION (FT.): 681.4 LOGGED (FT.): 32.7 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.4			UNCONSOLIDATED	10.0	0.0	
671.4	CARBONDALE		BLACK SHALE	15.0	10.0	
656.4	CARBONDALE		ROCK	1.0	25.0	"HARD"
655.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	26.0	FISSILE
653.4	CARBONDALE	SPRINGFIELD	COAL	4.7	28.0	

MAPID: 05700756000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 21 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.167812 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.667707 DATE COLLECTED:

SURFACE ELEVATION (FT.): 683.0 LOGGED (FT.): 30.0 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.0			UNCONSOLIDATED	20.0	0.0	
663.0	CARBONDALE		SHALE	7.0	20.0	
656.0	CARBONDALE	SPRINGFIELD	COAL	3.0	27.0	

MAPID: 05700757000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 21 QUARTERS/FOOTAGES: NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163085 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.665932 DATE COLLECTED:

SURFACE ELEVATION (FT.): 630.0 LOGGED (FT.): 30.9 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.0			UNCONSOLIDATED	12.0	0.0	
618.0	CARBONDALE		SANDY SHALE	15.0	12.0	
603.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	27.0	FISSILE
601.3	CARBONDALE	SPRINGFIELD	COAL	2.3	28.7	

MAPID: 05760026000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 21 **QUARTERS/FOOTAGES:** 20' S line, 20' E line of SW
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.168328 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.655121 **DATE COLLECTED:** 0 / 0 / 1949
SURFACE ELEVATION (FT.): 724.0 **LOGGED (FT.):** 81.2 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
647.0	CARBONDALE	SPRINGFIELD	COAL	4.2	77.0	

MAPID: 05760029000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 21 **QUARTERS/FOOTAGES:** SW NW SE
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.166911 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.659587 **DATE COLLECTED:** 0 / 0 / 1949
SURFACE ELEVATION (FT.): 703.9 **LOGGED (FT.):** 58.5 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.9	CARBONDALE	SPRINGFIELD	COAL	4.5	54.0	

MAPID: 05760031000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 21 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.168002 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.66229 **DATE COLLECTED:** 0 / 0 / 1949
SURFACE ELEVATION (FT.): 700.0 **LOGGED (FT.):** 63.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
643.0	CARBONDALE	SPRINGFIELD	COAL	6.0	57.0	

MAPID: 05700761000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES: SW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.153854 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.658771 DATE COLLECTED:

SURFACE ELEVATION (FT.): 702.3 LOGGED (FT.): 48.5 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.3			UNCONSOLIDATED	10.0	0.0	
692.3	CARBONDALE		SHALE	33.0	10.0	
659.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	43.0	FISSILE
658.3	CARBONDALE	SPRINGFIELD	COAL	4.5	44.0	

MAPID: 05700763000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.158471 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.662359 DATE COLLECTED:

SURFACE ELEVATION (FT.): 705.2 LOGGED (FT.): 57.9 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.2			UNCONSOLIDATED	15.0	0.0	
690.2	CARBONDALE		SANDSTONE	3.0	15.0	
687.2	CARBONDALE		SHALE	32.0	18.0	SDY TOP 9 FT
655.2	CARBONDALE		SANDSTONE	2.5	50.0	
652.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	52.5	FISSILE
651.7	CARBONDALE	SPRINGFIELD	COAL	4.4	53.5	

MAPID: 05700764000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.158295 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.665983 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 691.6 LOGGED (FT.): 43.3 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
691.6			UNCONSOLIDATED	3.0	0.0	
688.6	CARBONDALE		SANDY SHALE	26.0	3.0	
662.6	CARBONDALE		COAL	1.3	29.0	
661.3	CARBONDALE		SHALE	7.6	30.3	
653.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	37.9	FISSILE
652.3	CARBONDALE	SPRINGFIELD	COAL	4.1	39.3	

MAPID: 05700765000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES: NW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.153546 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.666009 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 680.9 LOGGED (FT.): 35.0 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.9			UNCONSOLIDATED	20.0	0.0	
660.9	CARBONDALE		SHALE	5.0	20.0	
655.9	CARBONDALE		SANDSTONE	1.0	25.0	
654.9	CARBONDALE	TURNER MINE	BLACK SHALE	4.0	26.0	FISSILE
650.9	CARBONDALE	SPRINGFIELD	COAL	5.0	30.0	

MAPID: 05700766000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NE NW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.151169 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.666022 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 704.1 LOGGED (FT.): 59.0 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.1			UNCONSOLIDATED	15.0	0.0	
689.1	CARBONDALE		SANDSTONE	6.0	15.0	
683.1	CARBONDALE		SHALE	33.5	21.0	BLUE
649.6	CARBONDALE	SPRINGFIELD	COAL	4.5	54.5	

MAPID: 05784754000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148924

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662421

DATE COLLECTED: 8 / 30 / 1945

SURFACE ELEVATION (FT.): 721.0 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2081

WELL TYPE: Coal Test

COMMENT: COORDINATES UPDATED. CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.0	PLEISTOCENE		SANDY CLAY	25.6	0.0	YELLOW
695.4	PLEISTOCENE		SANDY CLAY	10.0	25.6	YELLOW
685.4	PLEISTOCENE		SANDY CLAY	4.0	35.6	YELLOW
681.4	PLEISTOCENE		SANDY CLAY	26.0	39.6	GRAY
655.4	CARBONDALE	TURNER MINE	DARK SHALE	1.1	65.6	
654.3	CARBONDALE	SPRINGFIELD	COAL	1.2	66.7	
653.1	CARBONDALE		UNDERCLAY	2.1	67.9	

MAPID: 05784755000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142095

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656873

DATE COLLECTED: 8 / 31 / 1945

SURFACE ELEVATION (FT.): 721.0 LOGGED (FT.): 78.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2082

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.0	PLEISTOCENE		SOIL	1.0	0.0	
720.0	PLEISTOCENE		SANDY CLAY	24.6	1.0	YELLOW
695.4	PLEISTOCENE		SANDY CLAY	5.0	25.6	GRAY
690.4	CARBONDALE		GRAY SHALE	9.0	30.6	
681.4	CARBONDALE		DARK SHALE	26.0	39.6	
655.4	CARBONDALE		DARK SHALE	7.6	65.6	
647.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	73.2	
647.0	CARBONDALE	SPRINGFIELD	COAL	2.1	74.0	SOFT
644.9	CARBONDALE		UNDERCLAY	2.5	76.1	

MAPID: 05784756000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142652

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65519

DATE COLLECTED: 9 / 4 / 1945

SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 80.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2083

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.0	PLEISTOCENE		SOIL	1.0	0.0	
721.0	PLEISTOCENE		SANDY CLAY	28.6	1.0	
692.4	PLEISTOCENE		SANDY CLAY	1.0	29.6	AND BROKEN COAL
691.4	PLEISTOCENE		SANDY CLAY	5.0	30.6	
686.4	PLEISTOCENE		CLAY	6.4	35.6	& BOULDERS
680.0	CARBONDALE		DARK SHALE	23.6	42.0	
656.4	CARBONDALE		DARK SHALE	6.3	65.6	
650.1	CARBONDALE		ROCK	1.1	71.9	
649.0	CARBONDALE	TURNER MINE	DARK SHALE	2.6	73.0	
646.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	75.6	
645.8	CARBONDALE	SPRINGFIELD	COAL	2.1	76.2	
643.7	CARBONDALE		UNDERCLAY	2.3	78.3	

MAPID: 05784757000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148924

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662421

DATE COLLECTED: 9 / 6 / 1945

SURFACE ELEVATION (FT.): 685.0 LOGGED (FT.): 43.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2084

WELL TYPE: Coal Test

COMMENT: COORDINATES UPDATED. CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.0	PLEISTOCENE		SOIL	6.0	0.0	
679.0	PLEISTOCENE		CLAY & GRAVEL	16.0	6.0	
663.0	PLEISTOCENE		CLAY	4.0	22.0	
659.0	CARBONDALE		GRAY SHALE	10.0	26.0	
649.0	CARBONDALE	TURNER MINE	DARK SHALE	2.0	36.0	
647.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	38.0	
645.3	CARBONDALE	SPRINGFIELD	COAL	2.0	39.7	
643.3	CARBONDALE		UNDERCLAY	2.2	41.7	

MAPID: 05784758000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.15124 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.664733 DATE COLLECTED: 9 / 19 / 1945
SURFACE ELEVATION (FT.): 612.0 LOGGED (FT.): 13.5 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
612.0	PLEISTOCENE		CLAY	2.0	0.0	
610.0	PLEISTOCENE		SAND/CLAY	4.0	2.0	YELLOW
606.0	PLEISTOCENE		SAND/CLAY	6.5	6.0	GRAY
599.5	CARBONDALE		SANDSTONE	1.0	12.5	HARD

MAPID: 05784759000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.152508 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.66245 DATE COLLECTED: 9 / 20 / 1945
SURFACE ELEVATION (FT.): 654.0 LOGGED (FT.): 13.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2086 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.0	PLEISTOCENE		CLAY	2.0	0.0	
652.0	PLEISTOCENE		SAND/CLAY	7.0	2.0	
645.0	CARBONDALE	SPRINGFIELD	COAL	3.4	9.0	SOFT; TOP ERODED
641.6	CARBONDALE		UNDERCLAY	0.6	12.4	

MAPID: 05784760000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148964 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.66192 DATE COLLECTED: 9 / 7 / 1945
SURFACE ELEVATION (FT.): 690.0 LOGGED (FT.): 40.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2087 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.0	PLEISTOCENE		CLAY	5.8	0.0	
684.2	PLEISTOCENE		SAND/CLAY	15.2	5.8	
669.0	PLEISTOCENE		CLAY	10.0	21.0	
659.0	CARBONDALE		BLACK SHALE	5.0	31.0	
654.0	CARBONDALE	SPRINGFIELD	COAL	3.2	36.0	TRACES
650.8	CARBONDALE		UNDERCLAY	0.8	39.2	

MAPID: 05784761000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.149299 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.660203 DATE COLLECTED: 9 / 11 / 1945
SURFACE ELEVATION (FT.): 657.0 LOGGED (FT.): 20.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2090 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
657.0	PLEISTOCENE		SOIL	2.8	0.0	
654.2	PLEISTOCENE		CLAY, SAND & GRAVEL	7.2	2.8	
647.0	PLEISTOCENE		SAND/CLAY	4.0	10.0	
643.0	CARBONDALE		CLAYSTONE & SHALE	1.8	14.0	
641.2	CARBONDALE	SPRINGFIELD	COAL	3.2	15.8	TRACES
638.0	CARBONDALE		UNDERCLAY	1.0	19.0	

MAPID: 05784762000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.147064 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.658857 DATE COLLECTED: 9 / 18 / 1945
SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 12.8 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2093 WELL TYPE: Coal Test
COMMENT: COORDINATES UPDATED. CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0	PLEISTOCENE		CLAY	1.0	0.0	
654.0	PLEISTOCENE		SAND & GRAVEL	4.2	1.0	
649.8	PLEISTOCENE		CLAY & GRAVEL	2.0	5.2	GRAY
647.8	PLEISTOCENE		CLAY	3.0	7.2	
644.8	CARBONDALE	SPRINGFIELD	COAL	1.8	10.2	BLOSSOM;TOP ERODED
643.0	CARBONDALE		UNDERCLAY	0.8	12.0	

MAPID: 05784763000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.152485 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661896 DATE COLLECTED: 9 / 20 / 1945

SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 17.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2094 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0	PLEISTOCENE		CLAY	2.0	0.0	LOOM
653.0	PLEISTOCENE		SAND/CLAY	11.0	2.0	
642.0	CARBONDALE	SPRINGFIELD	COAL	3.4	13.0	BLOSSOM:TOP ERODED
638.6	CARBONDALE		UNDERCLAY	0.8	16.4	

MAPID: 05784764000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.153556 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662458 DATE COLLECTED: 9 / 25 / 1945

SURFACE ELEVATION (FT.): 674.0 LOGGED (FT.): 31.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2095 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.0	PLEISTOCENE		CLAY	2.0	0.0	
672.0	PLEISTOCENE		SAND/CLAY	10.0	2.0	
662.0	PLEISTOCENE		SAND/CLAY	6.0	12.0	
656.0	CARBONDALE		BLUE BAND	7.0	18.0	
649.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	25.0	
647.8	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.4	26.2	
643.4	CARBONDALE		UNDERCLAY	0.6	30.6	

MAPID: 05784765000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.153615

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661429

DATE COLLECTED: 9 / 29 / 1945

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 26.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2096

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.0	PLEISTOCENE		CLAY	2.0	0.0	LOOM
678.0	PLEISTOCENE		SAND/CLAY	8.0	2.0	RED
670.0	PLEISTOCENE		SAND/CLAY	8.0	10.0	YELLOW
662.0	CARBONDALE		BLUE BAND	2.0	18.0	
660.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	20.0	
659.0	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.8	21.0	
654.2	CARBONDALE		UNDERCLAY	0.6	25.8	

MAPID: 05784766000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143153

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644375

DATE COLLECTED: 9 / 4 / 1945

SURFACE ELEVATION (FT.): 717.0 LOGGED (FT.): 83.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.0	PLEISTOCENE		SOIL	15.0	0.0	
702.0	PLEISTOCENE		CLAY	5.0	15.0	
697.0	PLEISTOCENE		SANDY CLAY	4.0	20.0	
693.0	PLEISTOCENE		CLAY	12.0	24.0	
681.0	PLEISTOCENE		CLAY & GRAVEL	4.0	36.0	
677.0	PLEISTOCENE		SAND & GRAVEL	10.0	40.0	
667.0	PLEISTOCENE		CLAY & GRAVEL	16.2	50.0	
650.8	PLEISTOCENE		UNCONSOLIDATED	1.1	66.2	
649.7	PLEISTOCENE		CLAY	6.7	67.3	
643.0	PLEISTOCENE		BOULDER	1.0	74.0	
642.0	PLEISTOCENE		UNCONSOLIDATED	0.6	75.0	
641.4	PLEISTOCENE		CLAY & GRAVEL	5.4	75.6	
636.0	PLEISTOCENE		BOULDER	1.0	81.0	
635.0	PLEISTOCENE		SAND & GRAVEL	1.5	82.0	

MAPID: 05784767000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.146309

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658867

DATE COLLECTED: 9 / 4 / 1945

SURFACE ELEVATION (FT.): 706.0 LOGGED (FT.): 72.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2098

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.0	PLEISTOCENE		CLAY	5.0	0.0	
701.0	PLEISTOCENE		CLAY	10.0	5.0	BROKEN SANDSTONE
691.0	PLEISTOCENE		SANDY CLAY	10.2	15.0	
680.8	PLEISTOCENE		BOULDER	0.8	25.2	
680.0	PLEISTOCENE		SANDY CLAY	6.8	26.0	
673.2	PLEISTOCENE		BOULDER	0.8	32.8	
672.4	PLEISTOCENE		SAND & GRAVEL	2.6	33.6	
669.8	PLEISTOCENE		CLAY & GRAVEL	11.8	36.2	
658.0	PLEISTOCENE		CLAY	24.0	48.0	

MAPID: 05784768000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14673

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660561

DATE COLLECTED: 9 / 5 / 1945

SURFACE ELEVATION (FT.): 716.0 LOGGED (FT.): 76.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2099

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.0	PLEISTOCENE		SOIL	15.0	0.0	
701.0	PLEISTOCENE		CLAY & GRAVEL	11.0	15.0	YELLOW
690.0	PLEISTOCENE		CLAY & GRAVEL	16.0	26.0	GRAY
674.0	PLEISTOCENE		BOULDER	0.8	42.0	
673.2	PLEISTOCENE		SAND & GRAVEL	3.2	42.8	
670.0	PLEISTOCENE		SAND & GRAVEL	8.0	46.0	SOFT
662.0	PLEISTOCENE		CLAY & GRAVEL	10.0	54.0	
652.0	PLEISTOCENE		CLAY	2.0	64.0	
650.0	PLEISTOCENE		CLAY	10.0	66.0	HARD

MAPID: 05784769000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144392 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656932 DATE COLLECTED: 9 / 6 / 1945

SURFACE ELEVATION (FT.): 721.0 LOGGED (FT.): 72.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2100 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.0	PLEISTOCENE		SOIL	1.0	0.0	
720.0	PLEISTOCENE		SANDY CLAY	32.6	1.0	
687.4	PLEISTOCENE		SANDY CLAY	9.4	33.6	GRAY
678.0	CARBONDALE		GRAY SHALE	14.6	43.0	
663.4	CARBONDALE		DARK SHALE	4.4	57.6	
659.0	CARBONDALE		ROCK	1.0	62.0	
658.0	CARBONDALE	TURNER MINE	DARK SHALE	1.4	63.0	
656.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	64.4	
655.4	CARBONDALE	SPRINGFIELD	COAL	3.1	65.6	
652.3	CARBONDALE		UNDERCLAY	3.9	68.7	

MAPID: 05784770000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144416 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655186 DATE COLLECTED: 9 / 5 / 1945

SURFACE ELEVATION (FT.): 724.0 LOGGED (FT.): 78.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2101 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.0	PLEISTOCENE		SOIL	1.0	0.0	
723.0	PLEISTOCENE		CLAY, SAND & GRAVEL	32.6	1.0	
690.4	PLEISTOCENE		CLAY	10.4	33.6	
680.0	CARBONDALE		DARK SHALE	21.6	44.0	
658.4	CARBONDALE		DARK SHALE	5.0	65.6	
653.4	CARBONDALE	TURNER MINE	DARK SHALE	1.3	70.6	
652.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	71.9	
651.1	CARBONDALE	SPRINGFIELD	COAL	3.2	72.9	
647.9	CARBONDALE		UNDERCLAY	2.5	76.1	

MAPID: 05784771000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.146744

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659745

DATE COLLECTED: 9 / 4 / 1945

SURFACE ELEVATION (FT.): 716.0 LOGGED (FT.): 76.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2102

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.0	PLEISTOCENE		SOIL	10.0	0.0	
706.0	PLEISTOCENE		CLAY & GRAVEL	10.0	10.0	
696.0	PLEISTOCENE		SAND & GRAVEL	6.0	20.0	
690.0	PLEISTOCENE		CLAY & GRAVEL	14.0	26.0	
676.0	PLEISTOCENE		GRAVEL	14.0	40.0	
662.0	PLEISTOCENE		CLAY & GRAVEL	16.0	54.0	
646.0	PLEISTOCENE		BOULDER	2.5	70.0	
643.5	PLEISTOCENE		CLAY & GRAVEL	3.5	72.5	

MAPID: 05784772000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.146791

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656969

DATE COLLECTED: 9 / 11 / 1945

SURFACE ELEVATION (FT.): 720.0 LOGGED (FT.): 75.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2103

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.0	PLEISTOCENE		SOIL	1.0	0.0	
719.0	PLEISTOCENE		SANDY CLAY	23.6	1.0	GRAY
695.4	PLEISTOCENE		SANDY CLAY	30.0	24.6	GRAY
665.4	PLEISTOCENE		UNKNOWN	0.4	54.6	
665.0	PLEISTOCENE		UNKNOWN	0.6	55.0	COAL TRACES
664.4	PLEISTOCENE		SANDY CLAY	10.0	55.6	
654.4	PLEISTOCENE		SANDY CLAY	2.4	65.6	
652.0	CARBONDALE		UNKNOWN	1.4	68.0	DARK MATERIAL & COAL
650.6	CARBONDALE		ROCK	1.2	69.4	
649.4	CARBONDALE		UNDERCLAY	5.0	70.6	

MAPID: 05784773000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120631

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652023

DATE COLLECTED: 9 / 10 / 1945

SURFACE ELEVATION (FT.): 710.0 LOGGED (FT.): 86.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2107

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
710.0	PLEISTOCENE		SOIL	6.0	0.0	
704.0	PLEISTOCENE		SANDY CLAY	9.0	6.0	
695.0	PLEISTOCENE		CLAY & GRAVEL	2.0	15.0	
693.0	PLEISTOCENE		BOULDER	0.6	17.0	
692.4	PLEISTOCENE		CLAY & GRAVEL	12.4	17.6	
680.0	PLEISTOCENE		CLAY	8.0	30.0	GRAY
672.0	PLEISTOCENE		CLAY	0.5	38.0	GREENISH
671.5	PLEISTOCENE		CLAY	31.5	38.5	GRAY
640.0	PLEISTOCENE		SANDY CLAY	3.0	70.0	
637.0	PLEISTOCENE		CLAY	8.0	73.0	
629.0	CARBONDALE		GRAY SANDSTONE	3.8	81.0	
625.2	CARBONDALE		CLAYSTONE	0.2	84.8	
625.0	CARBONDALE		UNDERCLAY	1.5	85.0	

MAPID: 05784774000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148924

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662421

DATE COLLECTED: 9 / 8 / 1945

SURFACE ELEVATION (FT.): 717.0 LOGGED (FT.): 86.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2108

WELL TYPE: Coal Test

COMMENT: COORDINATES UPDATED. CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.0	PLEISTOCENE		SOIL	21.0	0.0	
696.0	PLEISTOCENE		CLAY & GRAVEL	3.0	21.0	
693.0	PLEISTOCENE		BOULDER	1.5	24.0	
691.5	PLEISTOCENE		CLAY & GRAVEL	10.5	25.5	
681.0	PLEISTOCENE		CLAY	10.0	36.0	
671.0	PLEISTOCENE		SANDY CLAY	25.0	46.0	
646.0	PLEISTOCENE		UNCONSOLIDATED	1.0	71.0	WITH WOOD
645.0	PLEISTOCENE		SAND & GRAVEL	3.0	72.0	
642.0	PLEISTOCENE		SANDY CLAY	2.0	75.0	
640.0	PLEISTOCENE		SANDY CLAY	6.0	77.0	SOFT
634.0	PLEISTOCENE		CLAY	3.0	83.0	

MAPID: 05784775000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145979

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66235

DATE COLLECTED: 9 / 11 / 1945

SURFACE ELEVATION (FT.): 690.0 LOGGED (FT.): 77.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2109

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.0	PLEISTOCENE		CLAY & GRAVEL	14.0	0.0	YELLOW
676.0	PLEISTOCENE		CLAY & GRAVEL	14.0	14.0	GRAY
662.0	PLEISTOCENE		SAND & GRAVEL	4.0	28.0	
658.0	PLEISTOCENE		CLAY & GRAVEL	11.0	32.0	
647.0	PLEISTOCENE		SAND	3.0	43.0	
644.0	PLEISTOCENE		CLAY	10.7	46.0	
633.3	PLEISTOCENE		CLAY & GRAVEL	2.2	56.7	
631.1	PLEISTOCENE		CLAY	1.1	58.9	
630.0	PLEISTOCENE		GRAVEL	4.0	60.0	
626.0	PLEISTOCENE		CLAY & GRAVEL	2.7	64.0	
623.3	PLEISTOCENE		CLAY, SAND & GRAVEL	10.7	66.7	

MAPID: 05784776000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141856

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662348

DATE COLLECTED: 9 / 12 / 1945

SURFACE ELEVATION (FT.): 717.0 LOGGED (FT.): 86.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2110

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.0	PLEISTOCENE		SOIL	17.0	0.0	
700.0	PLEISTOCENE		CLAY & GRAVEL	6.0	17.0	YELLOW
694.0	PLEISTOCENE		CLAY & GRAVEL	7.0	23.0	GRAY WITH BOULDERS
687.0	PLEISTOCENE		CLAY & GRAVEL	41.0	30.0	
646.0	PLEISTOCENE		CLAY	5.0	71.0	
641.0	PLEISTOCENE		CLAY	6.5	76.0	
634.5	PLEISTOCENE		CLAY	3.5	82.5	HARD

MAPID: 05784777000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145603 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656953 DATE COLLECTED: 9 / 18 / 1945

SURFACE ELEVATION (FT.): 717.0 LOGGED (FT.): 73.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2116 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.0	PLEISTOCENE		SOIL	1.0	0.0	
716.0	PLEISTOCENE		SAND/CLAY	38.6	1.0	& BOULDERS
677.4	PLEISTOCENE		CLAY	7.4	39.6	& BOULDERS
670.0	CARBONDALE		DARK SHALE	14.6	47.0	
655.4	CARBONDALE		DARK SHALE	7.4	61.6	
648.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	69.0	
647.1	CARBONDALE	SPRINGFIELD	COAL	1.5	69.9	
645.6	CARBONDALE		UNDERCLAY	1.6	71.4	

MAPID: 05784778000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141833 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.664152 DATE COLLECTED: 9 / 14 / 1945

SURFACE ELEVATION (FT.): 713.0 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2117 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.0	PLEISTOCENE		SOIL	6.0	0.0	
707.0	PLEISTOCENE		CLAY	8.0	6.0	
699.0	PLEISTOCENE		CLAY	6.0	14.0	GRAY
693.0	PLEISTOCENE		GRAVEL	3.4	20.0	
689.6	PLEISTOCENE		CLAY & GRAVEL	3.6	23.4	
686.0	PLEISTOCENE		SAND & GRAVEL	9.0	27.0	
677.0	PLEISTOCENE		SAND & GRAVEL	12.0	36.0	
665.0	PLEISTOCENE		UNCONSOLIDATED	7.0	48.0	WITH WOOD
658.0	PLEISTOCENE		GRAVEL	1.0	55.0	
657.0	PLEISTOCENE		CLAY	25.5	56.0	
631.5	PLEISTOCENE		BOULDER	1.0	81.5	
630.5	PLEISTOCENE		CLAY	3.5	82.5	

MAPID: 05784779000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.144183

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.664177

DATE COLLECTED: 9 / 15 / 1945

SURFACE ELEVATION (FT.): 713.0 LOGGED (FT.): 86.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2118

WELL TYPE: Coal Test

COMMENT: COORDINATES UPDATED. CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.0	PLEISTOCENE		SOIL	6.0	0.0	
707.0	PLEISTOCENE		CLAY	6.0	6.0	YELLOW
701.0	PLEISTOCENE		CLAY	3.0	12.0	GRAY
698.0	PLEISTOCENE		CLAY	5.0	15.0	
693.0	PLEISTOCENE		CLAY & GRAVEL	3.0	20.0	
690.0	PLEISTOCENE		CLAY & GRAVEL	5.0	23.0	& ROCK
685.0	PLEISTOCENE		GRAVEL	22.0	28.0	WITH COAL TRACES
663.0	PLEISTOCENE		GRAVEL	1.5	50.0	
661.5	PLEISTOCENE		CLAY, SAND & GRAVEL	22.5	51.5	
639.0	PLEISTOCENE		CLAY	2.0	74.0	
637.0	PLEISTOCENE		CLAY & GRAVEL	10.0	76.0	

MAPID: 05784780000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.146168

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.663202

DATE COLLECTED: 9 / 17 / 1945

SURFACE ELEVATION (FT.): 712.0 LOGGED (FT.): 86.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2119

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.0	PLEISTOCENE		SOIL	15.0	0.0	
697.0	PLEISTOCENE		CLAY & GRAVEL	3.2	15.0	
693.8	PLEISTOCENE		BOULDER	0.6	18.2	
693.2	PLEISTOCENE		CLAY & GRAVEL	11.2	18.8	GRAY
682.0	PLEISTOCENE		CLAY & GRAVEL	2.0	30.0	
680.0	PLEISTOCENE		SAND & GRAVEL	4.0	32.0	SOFT
676.0	PLEISTOCENE		SAND & GRAVEL	7.0	36.0	
669.0	PLEISTOCENE		SANDY CLAY	39.5	43.0	
629.5	PLEISTOCENE		CLAY & GRAVEL	3.5	82.5	

MAPID: 05784781000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143258

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656061

DATE COLLECTED: 9 / 20 / 1945

SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 84.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2120

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.0	PLEISTOCENE		SOIL	15.0	0.0	
707.0	PLEISTOCENE		CLAY & GRAVEL	5.5	15.0	YELLOW
701.5	PLEISTOCENE		CLAY & GRAVEL	7.5	20.5	GRAY
694.0	PLEISTOCENE		SAND & GRAVEL	3.5	28.0	
690.5	PLEISTOCENE		SANDY CLAY	3.5	31.5	
687.0	PLEISTOCENE		CLAY	7.5	35.0	
679.5	CARBONDALE		GRAY SHALE	28.5	42.5	
651.0	CARBONDALE		BLACK SHALE	5.0	71.0	
646.0	CARBONDALE		ROCK	1.0	76.0	
645.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	77.0	
643.6	CARBONDALE	SPRINGFIELD	CLAY & COAL	0.6	78.4	
643.0	CARBONDALE	SPRINGFIELD	COAL	4.6	79.0	HARD
638.4	CARBONDALE		UNDERCLAY	1.1	83.6	

MAPID: 05784782000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144354

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.657854

DATE COLLECTED: 9 / 19 / 1945

SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 68.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2121

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.0	PLEISTOCENE		SOIL	1.0	0.0	
721.0	PLEISTOCENE		SANDY CLAY	32.6	1.0	YELLOW
688.4	PLEISTOCENE		SANDY CLAY	25.0	33.6	GRAY
663.4	PLEISTOCENE		WOOD	2.4	58.6	
661.0	PLEISTOCENE		WOOD	3.0	61.0	
658.0	CARBONDALE		UNDERCLAY	4.6	64.0	

MAPID: 05784783000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143111 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.657858 DATE COLLECTED: 9 / 22 / 1945

SURFACE ELEVATION (FT.): 715.0 LOGGED (FT.): 64.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2122 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.0	PLEISTOCENE		SOIL	15.0	0.0	
700.0	PLEISTOCENE		CLAY	5.0	15.0	YELLOW
695.0	PLEISTOCENE		CLAY	15.0	20.0	GRAY
680.0	PLEISTOCENE		CLAY	0.5	35.0	
679.5	PLEISTOCENE		CLAY	14.5	35.5	GRAY
665.0	CARBONDALE		BLACK SHALE	5.8	50.0	
659.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	55.8	
658.0	CARBONDALE	SPRINGFIELD	COAL	4.2	57.0	
653.8	CARBONDALE		UNDERCLAY	2.8	61.2	

MAPID: 05784784000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.145519 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.657846 DATE COLLECTED: 9 / 20 / 1945

SURFACE ELEVATION (FT.): 718.0 LOGGED (FT.): 85.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2123 WELL TYPE: Coal Test

COMMENT: COORDINATES UPDATED. CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.0	PLEISTOCENE		SOIL	1.0	0.0	
717.0	PLEISTOCENE		SANDY CLAY	23.6	1.0	& BOULDERS
693.4	PLEISTOCENE		SANDY CLAY	41.0	24.6	GRAY
652.4	PLEISTOCENE		SANDY CLAY	20.0	65.6	GRAY

MAPID: 05784794000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144531

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6559

DATE COLLECTED: 7 / 6 / 1954

SURFACE ELEVATION (FT.): 722.7 LOGGED (FT.): 76.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 5990

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
722.7	PLEISTOCENE		SOIL	1.0	0.0
721.7	PLEISTOCENE		CLAY	18.4	1.0
703.3	PLEISTOCENE		BOULDER	0.7	19.4
702.6	PLEISTOCENE		SANDY CLAY	18.8	20.1
683.8	PLEISTOCENE		CLAY	9.5	38.9
674.3	CARBONDALE		GRAY SHALE	15.5	48.4
658.8	CARBONDALE		DARK SHALE	5.6	63.9
653.2	CARBONDALE	ST. DAVID	LIMESTONE	0.5	69.5
652.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	70.0
651.7	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.8	71.0
646.9	CARBONDALE		UNDERCLAY	1.0	75.8

MAPID: 05784795000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14564

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655927

DATE COLLECTED: 7 / 6 / 1954

SURFACE ELEVATION (FT.): 722.8 LOGGED (FT.): 78.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 5991

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
722.8	PLEISTOCENE		SOIL	1.0	0.0
721.8	PLEISTOCENE		CLAY	18.9	1.0
702.9	PLEISTOCENE		BOULDER	0.7	19.9
702.2	PLEISTOCENE		SAND & GRAVEL	20.1	20.6
682.1	PLEISTOCENE		SANDY CLAY	17.3	40.7
664.8	CARBONDALE		GRAY SHALE	10.0	58.0
654.8	CARBONDALE		DARK SHALE	2.0	68.0
652.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.6	70.0
650.2	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.9	72.6
645.3	CARBONDALE		UNDERCLAY	1.0	77.5

MAPID: 05784803000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.146712

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65594

DATE COLLECTED: 7 / 15 / 1954

SURFACE ELEVATION (FT.): 723.0 LOGGED (FT.): 85.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6011

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.0	PLEISTOCENE		SOIL	1.0	0.0	
722.0	PLEISTOCENE		SANDY CLAY	41.3	1.0	YELLOW
680.7	PLEISTOCENE		SANDY CLAY	31.3	42.3	GRAY
649.4	CARBONDALE	SPRINGFIELD	BLACK SHALE & COAL	2.6	73.6	TOP ERODED
646.8	CARBONDALE		GRAY SHALE	9.5	76.2	

MAPID: 05784805000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148845

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667789

DATE COLLECTED: 6 / 6 / 1959

SURFACE ELEVATION (FT.): 703.0 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6600

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.0	PLEISTOCENE		SOIL	1.0	0.0	
702.0	PLEISTOCENE		CLAY	25.0	1.0	
677.0	PLEISTOCENE		SANDY CLAY	9.0	26.0	
668.0	PLEISTOCENE		CLAY	15.2	35.0	GREEN
652.8	PLEISTOCENE		CLAY	15.2	50.2	GRAY
637.6	PLEISTOCENE		BOULDER	0.6	65.4	
637.0	PLEISTOCENE		CLAY	1.1	66.0	
635.9	CARBONDALE	SPRINGFIELD	COAL	1.0	67.1	BLOSSOM:TOP ERODED
634.9	CARBONDALE		UNDERCLAY	1.9	68.1	
633.0	CARBONDALE		GRAY SHALE	10.0	70.0	

MAPID: 05784806000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148835

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669467

DATE COLLECTED: 6 / 6 / 1959

SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6601

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.0	PLEISTOCENE		SOIL	1.0	0.0	
699.0	PLEISTOCENE		CLAY	28.4	1.0	
670.6	PLEISTOCENE		CLAY & GRAVEL	10.6	29.4	
660.0	PLEISTOCENE		BOULDER	0.3	40.0	
659.7	PLEISTOCENE		SAND & GRAVEL	18.0	40.3	
641.7	PLEISTOCENE		BOULDER	0.3	58.3	
641.4	PLEISTOCENE		CLAY & GRAVEL	11.4	58.6	
630.0	PLEISTOCENE		SANDY CLAY	7.1	70.0	
622.9	CARBONDALE		GRAY SHALE	2.9	77.1	

MAPID: 05784807000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.146513

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669518

DATE COLLECTED: 6 / 8 / 1959

SURFACE ELEVATION (FT.): 695.0 LOGGED (FT.): 70.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6602

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.0	PLEISTOCENE		SOIL	1.0	0.0	
694.0	PLEISTOCENE		CLAY	5.2	1.0	
688.8	PLEISTOCENE		CLAY & GRAVEL	20.1	6.2	
668.7	PLEISTOCENE		CLAY	0.6	26.3	
668.1	PLEISTOCENE		BOULDER	0.4	26.9	
667.7	PLEISTOCENE		CLAY	5.8	27.3	GREEN
661.9	PLEISTOCENE		CLAY	11.5	33.1	GRAY
650.4	PLEISTOCENE		SAND & GRAVEL	2.7	44.6	
647.7	PLEISTOCENE		CLAY	6.2	47.3	
641.5	CARBONDALE	SPRINGFIELD	SHALE/COAL	0.6	53.5	TOP ERODED
640.9	CARBONDALE		UNDERCLAY	1.9	54.1	
639.0	CARBONDALE		GRAY SHALE	14.3	56.0	

MAPID: 05784808000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.146537

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667804

DATE COLLECTED: 6 / 8 / 1959

SURFACE ELEVATION (FT.): 702.0 LOGGED (FT.): 80.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6603

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.0	PLEISTOCENE		SOIL	1.0	0.0	
701.0	PLEISTOCENE		CLAY & GRAVEL	21.4	1.0	
679.6	PLEISTOCENE		SANDY CLAY	21.7	22.4	
657.9	PLEISTOCENE		CLAY	6.0	44.1	
651.9	PLEISTOCENE		SAND & GRAVEL	4.0	50.1	& BOULDERS
647.9	PLEISTOCENE		CLAY	1.3	54.1	
646.6	CARBONDALE		DARK SHALE	1.3	55.4	
645.3	CARBONDALE		LIMESTONE	0.3	56.7	
645.0	CARBONDALE		DARK SHALE	0.9	57.0	
644.1	CARBONDALE		UNDERCLAY	1.2	57.9	NO COAL
642.9	CARBONDALE		LIMESTONE	1.3	59.1	
641.6	CARBONDALE		GRAY SHALE	14.8	60.4	
626.8	CARBONDALE		LIMESTONE	1.0	75.2	
625.8	CARBONDALE		GRAY SHALE	3.9	76.2	

MAPID: 05784809000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144168 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667823 DATE COLLECTED: 6 / 9 / 1959

SURFACE ELEVATION (FT.): 706.0 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6604 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.0	PLEISTOCENE		SOIL	1.0	0.0	
705.0	PLEISTOCENE		CLAY & GRAVEL	24.0	1.0	
681.0	PLEISTOCENE		CLAY	5.0	25.0	
676.0	PLEISTOCENE		SAND & GRAVEL	6.2	30.0	
669.8	PLEISTOCENE		CLAY & GRAVEL	16.4	36.2	
653.4	PLEISTOCENE		CLAY	4.4	52.6	
649.0	PLEISTOCENE		CLAY	6.0	57.0	& BOULDERS
643.0	PLEISTOCENE		CLAY	1.7	63.0	GRAY
641.3	PLEISTOCENE		CLAY	1.0	64.7	DARK
640.3	CARBONDALE	SPRINGFIELD	COAL	0.6	65.7	TOP ERODED
639.7	CARBONDALE		GRAY SHALE	8.1	66.3	
631.6	CARBONDALE		LIMESTONE	0.3	74.4	
631.3	CARBONDALE		GRAY SHALE	5.3	74.7	

MAPID: 05784810000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144168 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667823 DATE COLLECTED: 6 / 9 / 1959

SURFACE ELEVATION (FT.): 699.0 LOGGED (FT.): 50.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6604 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
699.0	PLEISTOCENE		SOIL	1.0	0.0	
698.0	PLEISTOCENE		CLAY	13.9	1.0	
684.1	PLEISTOCENE		CLAY & GRAVEL	8.9	14.9	
675.2	PLEISTOCENE		BOULDER	0.5	23.8	
674.7	PLEISTOCENE		SAND & GRAVEL	15.6	24.3	& BOULDERS
659.1	PLEISTOCENE		CLAY	2.0	39.9	& BOULDERS
657.1	PLEISTOCENE		CLAY & GRAVEL	4.7	41.9	
652.4	PLEISTOCENE		CLAY	3.6	46.6	& BOULDERS

MAPID: 05784813000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.155018

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669554

DATE COLLECTED:

SURFACE ELEVATION (FT.): 691.5 LOGGED (FT.): 78.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 522

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
691.5			UNKNOWN	78.0	0.0	NO COAL

MAPID: 05784814000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.15228

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.666995

DATE COLLECTED:

SURFACE ELEVATION (FT.): 703.2 LOGGED (FT.): 48.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 497K

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.2			UNKNOWN	47.0	0.0	
656.2	CARBONDALE	SPRINGFIELD	COAL	1.3	47.0	BLOSSOM

MAPID: 05784815000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.151378

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667028

DATE COLLECTED:

SURFACE ELEVATION (FT.): 703.8 LOGGED (FT.): 88.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 497L

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.8			UNKNOWN	88.0	0.0	NO COAL

MAPID: 05784816000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.152757

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.666537

DATE COLLECTED:

SURFACE ELEVATION (FT.): 700.7 LOGGED (FT.): 55.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 497V

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.7			UNKNOWN	55.0	0.0	
645.7	CARBONDALE	SPRINGFIELD	COAL	0.5	55.0	BLOSSOM

MAPID: 05784817000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.152579

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.666138

DATE COLLECTED:

SURFACE ELEVATION (FT.): 704.2 LOGGED (FT.): 57.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 497N

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.2			UNKNOWN	53.2	0.0	
651.0	CARBONDALE	SPRINGFIELD	COAL	4.1	53.2	

MAPID: 05784818000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.151674

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66653

DATE COLLECTED:

SURFACE ELEVATION (FT.): 705.2 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 497NA

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.2			UNKNOWN	59.0	0.0	
646.2	CARBONDALE	SPRINGFIELD	COAL	1.0	59.0	BLOSSOM

MAPID: 05784819000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.15001 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.667184 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 704.5 **LOGGED (FT.):** 88.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 497M **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.5			UNKNOWN	88.0	0.0	NO COAL

MAPID: 05784820000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.150778 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.666112 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 707.2 **LOGGED (FT.):** 65.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 497BB **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
707.2			UNKNOWN	65.0	0.0	NO COAL

MAPID: 05784821000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.150162 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.666096 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 708.0 **LOGGED (FT.):** 61.9 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 497P **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
708.0			UNKNOWN	59.0	0.0	
649.0	CARBONDALE	SPRINGFIELD	COAL	1.8	59.0	VERY SOFT
647.2	CARBONDALE	SPRINGFIELD	COAL	1.1	60.8	

MAPID: 05784822000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.148956 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.666062 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 708.0 **LOGGED (FT.):** 68.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 498 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
708.0			UNKNOWN	68.0	0.0	NO COAL

MAPID: 05784823000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.152981 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.665292 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 666.8 **LOGGED (FT.):** 25.6 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 472DA **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.8			UNKNOWN	21.3	0.0	
645.5	CARBONDALE	SPRINGFIELD	COAL	4.3	21.3	

MAPID: 05784824000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.151453 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.66538 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 690.2 **LOGGED (FT.):** 44.4 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 472EA **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.2			UNKNOWN	40.2	0.0	
650.0	CARBONDALE	SPRINGFIELD	COAL	4.2	40.2	

MAPID: 05784825000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.150667 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.665476 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 694.2 **LOGGED (FT.):** 58.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 472FA **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.2			UNKNOWN	58.0	0.0	NO COAL

MAPID: 05784826000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.150347 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.664909 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 646.0 **LOGGED (FT.):** 28.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 472G **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.0			UNKNOWN	28.0	0.0	NO COAL

MAPID: 05784827000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.148997 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.664326 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 651.0 **LOGGED (FT.):** 34.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 473C **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.0			UNKNOWN	34.0	0.0	NO COAL

MAPID: 05784828000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.148434 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.661474 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 710.5 **LOGGED (FT.):** 66.1 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X280H **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
710.5			UNKNOWN	64.0	0.0	
646.5	CARBONDALE	SPRINGFIELD	COAL	2.1	64.0	SOFT

MAPID: 05784829000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.147855 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.661488 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 711.3 **LOGGED (FT.):** 87.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X280A **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.3			UNKNOWN	87.0	0.0	NO COAL

MAPID: 05784830000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.147854 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.661022 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 713.9 **LOGGED (FT.):** 69.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X280L **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.9			UNKNOWN	66.0	0.0	
647.9	CARBONDALE	SPRINGFIELD	COAL	1.0	66.0	"S"
646.9	CARBONDALE	SPRINGFIELD	COAL	2.0	67.0	FAIR

MAPID: 05784831000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147111

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66102

DATE COLLECTED:

SURFACE ELEVATION (FT.): 703.1 LOGGED (FT.): 58.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X280M

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.1			UNKNOWN	55.0	0.0	
648.1	CARBONDALE	SPRINGFIELD	COAL	3.9	55.0	FAIR

MAPID: 05784832000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147288

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660567

DATE COLLECTED:

SURFACE ELEVATION (FT.): 714.9 LOGGED (FT.): 70.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X280P

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.9			UNKNOWN	67.0	0.0	
647.9	CARBONDALE	SPRINGFIELD	COAL	3.2	67.0	

MAPID: 05784833000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147295

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660106

DATE COLLECTED:

SURFACE ELEVATION (FT.): 715.0 LOGGED (FT.): 70.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X255G

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.0			UNKNOWN	67.0	0.0	
648.0	CARBONDALE	SPRINGFIELD	COAL	3.4	67.0	

MAPID: 05784834000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.152277

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65785

DATE COLLECTED:

SURFACE ELEVATION (FT.): 640.4 LOGGED (FT.): 17.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X228I

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.4			UNKNOWN	17.0	0.0	NO COAL

MAPID: 05784835000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.154606

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65787

DATE COLLECTED:

SURFACE ELEVATION (FT.): 685.0 LOGGED (FT.): 48.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST FV447

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.0			UNKNOWN	44.0	0.0	
641.0	CARBONDALE	SPRINGFIELD	COAL	4.5	44.0	

MAPID: 05784836000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.151562

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656965

DATE COLLECTED:

SURFACE ELEVATION (FT.): 645.8 LOGGED (FT.): 47.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 422A

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.8			UNKNOWN	47.0	0.0	NO COAL

MAPID: 05784837000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.151018 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.656088 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 651.3 **LOGGED (FT.):** 37.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X204H **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.3			UNKNOWN	37.0	0.0	NO COAL

MAPID: 05784838000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.146763 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.65788 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 714.2 **LOGGED (FT.):** 82.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X231C **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.2			UNKNOWN	82.0	0.0	NO COAL

MAPID: 05784839000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.150381 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.659719 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 656.8 **LOGGED (FT.):** 6.5 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X254A **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
656.8			UNKNOWN	6.0	0.0	
650.8	CARBONDALE	SPRINGFIELD	COAL	0.5	6.0	

MAPID: 0578484000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142043 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.657877 DATE COLLECTED:

SURFACE ELEVATION (FT.): 721.9 LOGGED (FT.): 69.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X233C WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
721.9			UNKNOWN	65.0	0.0
656.9	CARBONDALE	SPRINGFIELD	COAL	4.0	65.0

MAPID: 05784841000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144313 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.657382 DATE COLLECTED:

SURFACE ELEVATION (FT.): 716.0 LOGGED (FT.): 64.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X232L WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
716.0			UNKNOWN	60.4	0.0
655.6	CARBONDALE	SPRINGFIELD	COAL	4.2	60.4

MAPID: 05784842000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144418 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.657382 DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.8 LOGGED (FT.): 64.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X232J WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
718.8			UNKNOWN	60.0	0.0
658.8	CARBONDALE	SPRINGFIELD	COAL	1.0	60.0
657.8	CARBONDALE	SPRINGFIELD	COAL	3.0	61.0

MAPID: 05784843000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.145012 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.657368 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 718.6 **LOGGED (FT.):** 77.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X231M **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.6			UNKNOWN	77.0	0.0	NO COAL

MAPID: 05784844000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.145023 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.656921 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 718.8 **LOGGED (FT.):** 70.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X231P **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.8			UNKNOWN	66.0	0.0	
652.8	CARBONDALE	SPRINGFIELD	COAL	4.0	66.0	

MAPID: 05784845000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.145167 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.656509 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 715.9 **LOGGED (FT.):** 71.1 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X206G **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.9			UNKNOWN	67.0	0.0	
648.9	CARBONDALE	SPRINGFIELD	COAL	4.1	67.0	

MAPID: 05784846000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.147403 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.656971 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 719.5 **LOGGED (FT.):** 67.5 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X230P **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
719.5			UNKNOWN	64.0	0.0
655.5	CARBONDALE	SPRINGFIELD	COAL	3.5	64.0

MAPID: 05784847000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.146305 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.656519 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 718.6 **LOGGED (FT.):** 70.8 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X206E **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
718.6			UNKNOWN	69.0	0.0
649.6	CARBONDALE	SPRINGFIELD	COAL	1.8	69.0

MAPID: 05784848000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.14574 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.656514 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 719.9 **LOGGED (FT.):** 73.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X206F **WELL TYPE:** Coal Test
COMMENT: LOCATIONS DIGITIZED FROM CO MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
719.9			UNKNOWN	69.0	0.0
650.9	CARBONDALE	SPRINGFIELD	COAL	4.0	69.0

MAPID: 05784849000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.146304

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656064

DATE COLLECTED:

SURFACE ELEVATION (FT.): 720.2 LOGGED (FT.): 75.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X206H

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.2			UNKNOWN	71.0	0.0	
649.2	CARBONDALE	SPRINGFIELD	COAL	4.3	71.0	

MAPID: 05784850000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141462

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658496

DATE COLLECTED:

SURFACE ELEVATION (FT.): 720.2 LOGGED (FT.): 68.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1940

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.2			UNKNOWN	64.5	0.0	
655.7	CARBONDALE	SPRINGFIELD	COAL	4.2	64.5	

MAPID: 05784851000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141018

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658727

DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.5 LOGGED (FT.): 67.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1941

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.5			UNKNOWN	63.7	0.0	
654.8	CARBONDALE	SPRINGFIELD	COAL	4.0	63.7	

MAPID: 05784852000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142467 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658339 DATE COLLECTED:

SURFACE ELEVATION (FT.): 720.4 LOGGED (FT.): 65.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1942 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.4			UNKNOWN	61.8	0.0	
658.6	CARBONDALE	SPRINGFIELD	COAL	4.0	61.8	

MAPID: 05784853000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143199 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658324 DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.1 LOGGED (FT.): 63.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1944 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.1			UNKNOWN	59.8	0.0	
658.3	CARBONDALE	SPRINGFIELD	SMUT	1.5	59.8	
656.8	CARBONDALE	SPRINGFIELD	COAL	1.8	61.3	

MAPID: 05784854000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142836 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658615 DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.2 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1945 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.2			UNKNOWN	74.0	0.0	NO COAL

MAPID: 05784855000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143811

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.657882

DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.5 LOGGED (FT.): 63.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1946

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.5			UNKNOWN	59.7	0.0	
658.8	CARBONDALE	SPRINGFIELD	COAL	3.9	59.7	

MAPID: 05784856000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144812

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.657617

DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.2 LOGGED (FT.): 81.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1947

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.2			UNKNOWN	81.2	0.0	

MAPID: 05784857000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147355

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656475

DATE COLLECTED:

SURFACE ELEVATION (FT.): 720.5 LOGGED (FT.): 83.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1948

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.5			UNKNOWN	83.2	0.0	NO COAL

MAPID: 05784858000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14389 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658179 DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.4 LOGGED (FT.): 69.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1949 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.4			UNKNOWN	69.0	0.0	NO COAL

MAPID: 05784859000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147593 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656766 DATE COLLECTED:

SURFACE ELEVATION (FT.): 720.9 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1955 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.9			UNKNOWN	67.9	0.0	
653.0	CARBONDALE	SPRINGFIELD	COAL	4.1	67.9	

MAPID: 05784860000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147005 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.657401 DATE COLLECTED:

SURFACE ELEVATION (FT.): 711.1 LOGGED (FT.): 59.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1956 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.1			UNKNOWN	58.1	0.0	
653.0	CARBONDALE	SPRINGFIELD	COAL	1.4	58.1	

MAPID: 05784866000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.150412 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655631 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 660.2 **LOGGED (FT.):** 14.3 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X204L **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.2			UNKNOWN	10.0	0.0	
650.2	CARBONDALE	SPRINGFIELD	COAL	4.3	10.0	SOFT

MAPID: 05784867000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.149868 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655209 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 700.0 **LOGGED (FT.):** 27.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X204P **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.0			UNKNOWN	27.0	0.0	NO COAL

MAPID: 05784869000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.146901 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655603 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 718.0 **LOGGED (FT.):** 78.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X206J **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.0			UNKNOWN	77.0	0.0	
641.0	CARBONDALE	SPRINGFIELD	COAL	1.0	77.0	SOFT

MAPID: 0578487000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.146286 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655609 DATE COLLECTED:

SURFACE ELEVATION (FT.): 720.7 LOGGED (FT.): 79.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X206K WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.7			UNKNOWN	75.0	0.0	
645.7	CARBONDALE	SPRINGFIELD	COAL	4.1	75.0	

MAPID: 05784871000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.146959 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655227 DATE COLLECTED:

SURFACE ELEVATION (FT.): 711.1 LOGGED (FT.): 72.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X206 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.1			UNKNOWN	68.0	0.0	
643.1	CARBONDALE	SPRINGFIELD	COAL	4.2	68.0	

MAPID: 05784873000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142106 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656064 DATE COLLECTED:

SURFACE ELEVATION (FT.): 722.3 LOGGED (FT.): 78.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X208C WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.3			UNKNOWN	74.0	0.0	
648.3	CARBONDALE	SPRINGFIELD	COAL	4.8	74.0	

MAPID: 05784875000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141814

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655484

DATE COLLECTED:

SURFACE ELEVATION (FT.): 714.2 LOGGED (FT.): 73.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1810

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.2			UNKNOWN	69.0	0.0	
645.2	CARBONDALE	SPRINGFIELD	COAL	4.1	69.0	

MAPID: 05784876000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141831

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655371

DATE COLLECTED:

SURFACE ELEVATION (FT.): 705.7 LOGGED (FT.): 63.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1808

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.7			UNKNOWN	62.1	0.0	
643.6	CARBONDALE	SPRINGFIELD	COAL	1.8	62.1	

MAPID: 05784878000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141028

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658217

DATE COLLECTED:

SURFACE ELEVATION (FT.): 719.8 LOGGED (FT.): 65.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1887

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.8			UNKNOWN	61.2	0.0	
658.6	CARBONDALE	SPRINGFIELD	COAL	3.9	61.2	

MAPID: 0578488000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14189 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658231 DATE COLLECTED:

SURFACE ELEVATION (FT.): 721.7 LOGGED (FT.): 67.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1885 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.7			UNKNOWN	63.2	0.0	
658.5	CARBONDALE	SPRINGFIELD	COAL	4.0	63.2	

MAPID: 05784946000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147059 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659307 DATE COLLECTED: 4 / 7 / 1971

SURFACE ELEVATION (FT.): 688.7 LOGGED (FT.): 45.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 13619 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.7	PLEISTOCENE		SANDY CLAY	16.5	0.0	
672.2	PLEISTOCENE		CLAY	20.1	16.5	
652.1	CARBONDALE	ANNA	DARK SHALE	2.2	36.6	
649.9	CARBONDALE	HERRIN	COAL	1.1	38.8	SOFT
648.8	CARBONDALE		UNDERCLAY	5.1	39.9	

MAPID: 05785459000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139461

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667862

DATE COLLECTED: 6 / 9 / 1959

SURFACE ELEVATION (FT.): 705.0 LOGGED (FT.): 80.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6606

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.0	PLEISTOCENE		SOIL	1.0	0.0	
704.0	PLEISTOCENE		CLAY	23.6	1.0	
680.4	PLEISTOCENE		SANDY CLAY	20.5	24.6	
659.9	PLEISTOCENE		BOULDER	0.6	45.1	
659.3	PLEISTOCENE		CLAY & GRAVEL	17.6	45.7	
641.7	CARBONDALE		DARK SHALE	0.3	63.3	
641.4	CARBONDALE		GRAY SHALE	6.7	63.6	
634.7	CARBONDALE		LIMESTONE	1.5	70.3	
633.2	CARBONDALE		GRAY SHALE	0.7	71.8	
632.5	CARBONDALE		LIMESTONE	1.2	72.5	
631.3	CARBONDALE		GRAY SHALE	6.6	73.7	

MAPID: 05785487000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12243

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646209

DATE COLLECTED: 8 / 27 / 1945

SURFACE ELEVATION (FT.): 716.0 LOGGED (FT.): 84.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2080

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.0	PLEISTOCENE		SOIL	1.0	0.0	
715.0	PLEISTOCENE		SANDY CLAY	22.6	1.0	
692.4	PLEISTOCENE		CLAY	6.4	23.6	GRAY
686.0	PLEISTOCENE		CLAY	25.6	30.0	GRAY
660.4	PLEISTOCENE		CLAY	7.4	55.6	GRAY
653.0	PLEISTOCENE		SAND & GRAVEL	3.6	63.0	
649.4	PLEISTOCENE		CLAY	18.0	66.6	

MAPID: 05785488000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122642

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645708

DATE COLLECTED: 8 / 28 / 1945

SURFACE ELEVATION (FT.): 716.0 LOGGED (FT.): 75.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2079

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.0	PLEISTOCENE		SOIL	1.0	0.0	
715.0	PLEISTOCENE		SANDY CLAY	32.6	1.0	
682.4	PLEISTOCENE		CLAY	36.4	33.6	GRAY
646.0	PLEISTOCENE		CLAY	5.6	70.0	GRAY

MAPID: 05785491000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.140257

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658704

DATE COLLECTED:

SURFACE ELEVATION (FT.): 712.3 LOGGED (FT.): 59.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1943

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.3			UNKNOWN	55.7	0.0	
656.6	CARBONDALE	SPRINGFIELD	COAL	3.9	55.7	

MAPID: 05785492000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14061

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65842

DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.5 LOGGED (FT.): 66.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1889

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.5			UNKNOWN	62.7	0.0	
655.8	CARBONDALE	SPRINGFIELD	COAL	4.0	62.7	

MAPID: 05785493000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139922 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658457 DATE COLLECTED:

SURFACE ELEVATION (FT.): 713.1 LOGGED (FT.): 60.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1888 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.1			UNKNOWN	56.8	0.0	
656.2	CARBONDALE	SPRINGFIELD	COAL	4.0	56.9	

MAPID: 05785494000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.140322 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658223 DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.1 LOGGED (FT.): 60.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1886 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.1			UNKNOWN	56.8	0.0	
661.3	CARBONDALE	SPRINGFIELD	COAL	4.0	56.8	

MAPID: 05785495000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139608 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658216 DATE COLLECTED:

SURFACE ELEVATION (FT.): 712.0 LOGGED (FT.): 59.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1884 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.0			UNKNOWN	55.9	0.0	
656.1	CARBONDALE	SPRINGFIELD	COAL	3.9	55.9	

MAPID: 05785529000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.139984 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655447 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 690.0 **LOGGED (FT.):** 52.5 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1813 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.0			UNKNOWN	48.5	0.0	
641.5	CARBONDALE	SPRINGFIELD	COAL	4.0	48.5	

MAPID: 05785530000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.140687 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655451 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 699.8 **LOGGED (FT.):** 80.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1811 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
699.8			UNKNOWN	80.0	0.0	NO COAL

MAPID: 05785531000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.140399 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.65558 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 704.0 **LOGGED (FT.):** 80.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1806 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.0			UNKNOWN	80.0	0.0	NO COAL

MAPID: 05785533000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.140335

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655326

DATE COLLECTED:

SURFACE ELEVATION (FT.): 694.6 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1803

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.6			UNKNOWN	80.0	0.0	NO COAL

MAPID: 05785535000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139714

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65523

DATE COLLECTED:

SURFACE ELEVATION (FT.): 678.0 LOGGED (FT.): 40.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1801

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.0			UNKNOWN	37.0	0.0	
641.0	CARBONDALE	SPRINGFIELD	COAL	1.4	37.0	SOFT
639.6	CARBONDALE	SPRINGFIELD	COAL	2.5	38.4	

MAPID: 05785537000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 22 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132343

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660854

DATE COLLECTED:

SURFACE ELEVATION (FT.): 711.2 LOGGED (FT.): 65.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1799

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.2			UNKNOWN	61.5	0.0	
649.7	CARBONDALE	SPRINGFIELD	COAL	4.0	61.5	

MAPID: 05785178000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120776

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656133

DATE COLLECTED: 6 / 12 / 1975

SURFACE ELEVATION (FT.): 717.9 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22943

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.9	PLEISTOCENE		CLAY & GRAVEL	13.5	0.0	YELLOW
704.4	PLEISTOCENE		CLAY & GRAVEL	21.5	13.5	GRAY
682.9	PLEISTOCENE		BOULDER	1.0	35.0	
681.9	PLEISTOCENE		CLAY & GRAVEL	27.0	36.0	
654.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	63.0	SOFT
653.7	CARBONDALE	SPRINGFIELD	COAL	3.8	64.2	
649.9	CARBONDALE		UNDERCLAY	2.0	68.0	

MAPID: 05785188000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.125366

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.666176

DATE COLLECTED: 5 / 17 / 1955

SURFACE ELEVATION (FT.): 716.0 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6163

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.0	PLEISTOCENE		SOIL	1.0	0.0	
715.0	PLEISTOCENE		CLAY	23.8	1.0	
691.2	PLEISTOCENE		SANDY CLAY	40.2	24.8	

MAPID: 05785204000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120726

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662664

DATE COLLECTED:

SURFACE ELEVATION (FT.): 714.0 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT1

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.0			UNKNOWN	120.0	0.0	NO COAL

MAPID: 05785205000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118788

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644476

DATE COLLECTED:

SURFACE ELEVATION (FT.): 698.0 LOGGED (FT.): 92.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT5

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.0			UNKNOWN	92.0	0.0	NO COAL

MAPID: 05785388000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120861

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659101

DATE COLLECTED:

SURFACE ELEVATION (FT.): 713.0 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT7

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.0			UNKNOWN	120.0	0.0	NO COAL

MAPID: 05785394000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120918

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655423

DATE COLLECTED:

SURFACE ELEVATION (FT.): 728.0 LOGGED (FT.): 82.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT9

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.0			UNKNOWN	78.4	0.0	
649.6	CARBONDALE	SPRINGFIELD	COAL	3.9	78.4	

MAPID: 05785395000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130013 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662495 DATE COLLECTED:

SURFACE ELEVATION (FT.): 711.0 LOGGED (FT.): 86.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 2128 WELL TYPE: Coal Test

COMMENT: COORDINATES UPDATED. CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.0			UNKNOWN	86.0	0.0	NO COAL

MAPID: 05785397000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118876 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64258 DATE COLLECTED:

SURFACE ELEVATION (FT.): 715.0 LOGGED (FT.): 120.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT6 WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.0			UNKNOWN	120.0	0.0	NO COAL

MAPID: 05785447000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134644 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.666086 DATE COLLECTED: 3 / 26 / 1937

SURFACE ELEVATION (FT.): 714.0 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 213 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.0	PLEISTOCENE		CLAY	16.0	0.0	
698.0	PLEISTOCENE		UNKNOWN	4.5	16.0	
693.5	PLEISTOCENE		SANDY CLAY	28.5	20.5	
665.0	PLEISTOCENE		SAND	15.4	49.0	
649.6	PLEISTOCENE		SAND & GRAVEL	11.5	64.4	

MAPID: 05785448000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134918 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658826 DATE COLLECTED: 3 / 27 / 1937

SURFACE ELEVATION (FT.): 717.0 LOGGED (FT.): 77.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 214 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.0	PLEISTOCENE		CLAY	19.5	0.0	
697.5	PLEISTOCENE		SAND & GRAVEL	12.3	19.5	
685.2	PLEISTOCENE		BOULDER	0.4	31.8	
684.8	PLEISTOCENE		SANDY CLAY	11.1	32.2	
673.7	CARBONDALE		GRAY SHALE	22.2	43.3	
651.6	CARBONDALE		DARK SHALE	5.3	65.4	
646.3	CARBONDALE	ST. DAVID	LIMESTONE	0.9	70.7	HARD
645.4	CARBONDALE	TURNER MINE	DARK SHALE	0.3	71.6	
645.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	71.9	
644.1	CARBONDALE	SPRINGFIELD	COAL	4.2	72.9	
640.0	CARBONDALE		UNDERCLAY	0.7	77.0	

MAPID: 05785449000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130245 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655242 DATE COLLECTED: 3 / 29 / 1937

SURFACE ELEVATION (FT.): 664.0 LOGGED (FT.): 21.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 215 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.0	PLEISTOCENE		CLAY	14.7	0.0	
649.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	14.7	
647.7	CARBONDALE	SPRINGFIELD	COAL	4.3	16.3	
643.4	CARBONDALE		UNDERCLAY	0.7	20.6	

MAPID: 0578545000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118258

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655208

DATE COLLECTED: 3 / 26 / 1937

SURFACE ELEVATION (FT.): 709.0 LOGGED (FT.): 85.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 216

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.0	PLEISTOCENE		CLAY	26.1	0.0	
682.9	PLEISTOCENE		SANDY CLAY	2.7	26.1	YELLOW
680.2	PLEISTOCENE		SANDY CLAY	7.0	28.8	SOFT
673.3	PLEISTOCENE		SAND	4.9	35.7	
668.3	PLEISTOCENE		SANDY CLAY	39.2	40.7	
629.2	CARBONDALE		GRAY SHALE	6.0	79.8	

MAPID: 05785451000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138888

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655191

DATE COLLECTED: 3 / 27 / 1937

SURFACE ELEVATION (FT.): 647.0 LOGGED (FT.): 40.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 217

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
647.0	PLEISTOCENE		CLAY	12.6	0.0	
634.4	PLEISTOCENE		CLAY	15.1	12.6	SOFT
619.3	PLEISTOCENE		GRAVEL	3.3	27.7	
616.0	CARBONDALE		GRAY SHALE	3.1	31.0	
612.8	CARBONDALE		BLACK SHALE	0.9	34.2	
611.9	CARBONDALE		GRAY SHALE	3.4	35.1	
608.6	CARBONDALE		GRAY SHALE	2.3	38.4	

MAPID: 05785452000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134838

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655193

DATE COLLECTED: 3 / 29 / 1937

SURFACE ELEVATION (FT.): 652.0 LOGGED (FT.): 46.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 218

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
652.0	PLEISTOCENE		CLAY	18.2	0.0	
633.8	PLEISTOCENE		GRAVEL	3.2	18.2	
630.6	PLEISTOCENE		CLAY	11.7	21.4	HARD
618.9	CARBONDALE		DARK SHALE	3.7	33.1	
615.2	CARBONDALE		GRAY SHALE	3.1	36.8	
612.1	CARBONDALE		LIMESTONE	0.3	39.9	SOFT
611.7	CARBONDALE		SHALE	5.7	40.3	FLAKEY

MAPID: 05785453000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139432

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658749

DATE COLLECTED: 3 / 30 / 1937

SURFACE ELEVATION (FT.): 695.0 LOGGED (FT.): 53.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 219

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.0	PLEISTOCENE		CLAY	10.0	0.0	
685.0	PLEISTOCENE		SAND & GRAVEL	17.2	10.0	
667.7	PLEISTOCENE		SANDY CLAY	10.8	27.3	
656.9	PLEISTOCENE		CLAY	2.6	38.1	DARK GRAY
654.3	PLEISTOCENE		SAND	0.4	40.7	SOFT
653.9	PLEISTOCENE		CLAY	0.5	41.1	
653.4	PLEISTOCENE		BOULDER	1.0	41.6	
652.5	PLEISTOCENE		SANDY CLAY	10.5	42.5	

MAPID: 05785454000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118663

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63897

DATE COLLECTED: 3 / 24 / 1937

SURFACE ELEVATION (FT.): 715.0 LOGGED (FT.): 85.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 225

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.0	PLEISTOCENE		CLAY	18.9	0.0	
696.1	PLEISTOCENE		SANDY CLAY	2.7	18.9	
693.4	PLEISTOCENE		SAND & GRAVEL	4.4	21.6	
689.1	PLEISTOCENE		SAND & GRAVEL	12.3	25.9	GRAY
676.8	PLEISTOCENE		SAND/CLAY	23.2	38.2	
653.6	PLEISTOCENE		SANDY CLAY	24.2	61.4	

MAPID: 05785455000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134693

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662342

DATE COLLECTED: 3 / 31 / 1937

SURFACE ELEVATION (FT.): 718.0 LOGGED (FT.): 70.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 226

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.0	PLEISTOCENE		CLAY	17.5	0.0	
700.5	PLEISTOCENE		SAND & GRAVEL	18.9	17.5	
681.7	PLEISTOCENE		SANDY CLAY	10.7	36.3	
671.0	PLEISTOCENE		SAND & GRAVEL	18.5	47.0	
652.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	65.5	
651.8	CARBONDALE	SPRINGFIELD	COAL	2.2	66.2	SOFT
649.5	CARBONDALE		UNDERCLAY	2.0	68.5	

MAPID: 05785456000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12097 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638983 DATE COLLECTED: 4 / 5 / 1937

SURFACE ELEVATION (FT.): 719.0 LOGGED (FT.): 82.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 227 WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.0	PLEISTOCENE		CLAY	18.5	0.0	
700.5	PLEISTOCENE		SANDY CLAY	5.9	18.5	
694.6	PLEISTOCENE		BOULDER	0.6	24.4	
694.0	PLEISTOCENE		SAND & GRAVEL	6.4	25.0	
687.6	PLEISTOCENE		SANDY CLAY	9.1	31.4	
678.5	PLEISTOCENE		UNCONSOLIDATED	29.5	40.5	
649.0	PLEISTOCENE		SANDY CLAY	12.9	70.0	

MAPID: 05785457000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130179 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658294 DATE COLLECTED: 3 / 26 / 1937

SURFACE ELEVATION (FT.): 713.0 LOGGED (FT.): 83.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 236 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.0	PLEISTOCENE		CLAY	20.5	0.0	
692.5	PLEISTOCENE		SANDY CLAY	0.7	20.5	YELLOW
691.8	PLEISTOCENE		SANDY CLAY	27.0	21.2	GRAY
664.8	PLEISTOCENE		GRAVEL	3.2	48.2	
661.6	PLEISTOCENE		SANDY CLAY	17.0	51.4	GRAY
644.6	PLEISTOCENE		SANDY CLAY	10.0	68.4	GREENISH
634.6	PLEISTOCENE		SANDY CLAY	3.1	78.4	BROWNISH
631.6	CARBONDALE		UNDERCLAY	2.0	81.4	NO COAL

MAPID: 05785458000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130125

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662352

DATE COLLECTED: 3 / 29 / 1937

SURFACE ELEVATION (FT.): 716.0 LOGGED (FT.): 82.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 237

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
716.0	PLEISTOCENE		CLAY	22.0	0.0
694.0	PLEISTOCENE		SANDY CLAY	5.2	22.0
688.8	PLEISTOCENE		SAND & GRAVEL	6.1	27.2
682.7	PLEISTOCENE		SANDY CLAY	48.9	33.3

MAPID: 05785460000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.126563

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660263

DATE COLLECTED: 5 / 21 / 1955

SURFACE ELEVATION (FT.): 695.0 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6166

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
695.0	PLEISTOCENE		SOIL	1.0	0.0
694.0	PLEISTOCENE		CLAY	22.7	1.0
671.3	PLEISTOCENE		SANDY CLAY	41.3	23.7

MAPID: 05785461000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.12828

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660224

DATE COLLECTED: 5 / 21 / 1955

SURFACE ELEVATION (FT.): 707.0 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6165

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
707.0	PLEISTOCENE		SOIL	1.0	0.0
706.0	PLEISTOCENE		SANDY CLAY	23.0	1.0 YELLOW
683.0	PLEISTOCENE		SANDY CLAY	41.0	24.0 GRAY

MAPID: 05785462000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.127238

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65882

DATE COLLECTED: 5 / 21 / 1955

SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6164

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.0	PLEISTOCENE		SOIL	1.0	0.0	
699.0	PLEISTOCENE		SANDY CLAY	23.7	1.0	YELLOW
675.3	PLEISTOCENE		SANDY CLAY	40.3	24.7	GRAY

MAPID: 05785463000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.127663

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.666101

DATE COLLECTED: 5 / 17 / 1955

SURFACE ELEVATION (FT.): 717.0 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6162

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.0	PLEISTOCENE		SOIL	1.0	0.0	
716.0	PLEISTOCENE		CLAY	23.9	1.0	
692.1	PLEISTOCENE		CLAY	40.1	24.9	SNDY

MAPID: 05785464000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.127751

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669061

DATE COLLECTED: 5 / 17 / 1955

SURFACE ELEVATION (FT.): 702.0 LOGGED (FT.): 64.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6161

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.0	PLEISTOCENE		CLAY	19.9	0.0	
682.1	PLEISTOCENE		SANDY CLAY	44.1	19.9	

MAPID: 05785465000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129956 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.669695 DATE COLLECTED: 5 / 17 / 1955
SURFACE ELEVATION (FT.): 704.0 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 6160 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.0	PLEISTOCENE		SOIL	1.0	0.0	
703.0	PLEISTOCENE		CLAY	20.0	1.0	
683.0	PLEISTOCENE		SAND & GRAVEL	4.7	21.0	
678.3	PLEISTOCENE		SANDY CLAY	49.3	25.7	

MAPID: 05785466000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.126506 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.662407 DATE COLLECTED: 5 / 16 / 1955
SURFACE ELEVATION (FT.): 713.0 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 6159 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.0	PLEISTOCENE		SOIL	1.0	0.0	
712.0	PLEISTOCENE		CLAY	20.7	1.0	
691.3	PLEISTOCENE		SANDY CLAY	53.3	21.7	

MAPID: 05785469000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132458 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.662354 DATE COLLECTED: 4 / 12 / 1946
SURFACE ELEVATION (FT.): 715.0 LOGGED (FT.): 85.6 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2326 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.0	PLEISTOCENE		SOIL	1.0	0.0	
714.0	PLEISTOCENE		CLAY	20.3	1.0	YELLOW
693.7	PLEISTOCENE		CLAY	10.0	21.3	GREEN
683.7	PLEISTOCENE		SANDY CLAY	16.5	31.3	
667.2	PLEISTOCENE		CLAY	20.1	47.8	
647.1	CARBONDALE		SANDSTONE	3.4	67.9	
643.7	CARBONDALE		GRAY SHALE	14.3	71.3	

MAPID: 0578547000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132493 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660596 DATE COLLECTED: 4 / 12 / 1946

SURFACE ELEVATION (FT.): 710.0 LOGGED (FT.): 67.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2325 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
710.0	PLEISTOCENE		SOIL	10.0	0.0	
700.0	PLEISTOCENE		CLAY	2.0	10.0	BROWN
698.0	PLEISTOCENE		CLAY	8.0	12.0	GRAY
690.0	PLEISTOCENE		CLAY & GRAVEL	20.0	20.0	
670.0	PLEISTOCENE		BOULDER	1.1	40.0	
668.9	PLEISTOCENE		CLAY	8.9	41.1	
660.0	PLEISTOCENE		CLAY & GRAVEL	11.6	50.0	
648.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	61.6	SOFT
647.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	62.8	VERY SOFT
646.5	CARBONDALE	SPRINGFIELD	COAL	3.1	63.5	
643.5	CARBONDALE		UNDERCLAY	0.7	66.5	

MAPID: 05785471000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130154 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660802 DATE COLLECTED: 4 / 11 / 1946

SURFACE ELEVATION (FT.): 706.0 LOGGED (FT.): 61.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2324 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.0	PLEISTOCENE		SOIL	1.0	0.0	
705.0	PLEISTOCENE		CLAY	20.3	1.0	
684.7	PLEISTOCENE		SAND & GRAVEL	35.0	21.3	
649.7	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.4	56.3	TOP ERODED
646.3	CARBONDALE		UNDERCLAY	1.6	59.7	

MAPID: 05785472000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132524

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658822

DATE COLLECTED: 4 / 11 / 1946

SURFACE ELEVATION (FT.): 717.0 LOGGED (FT.): 70.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2323

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
717.0	PLEISTOCENE		SOIL	18.0	0.0
699.0	PLEISTOCENE		CLAY & GRAVEL	2.0	18.0
697.0	PLEISTOCENE		BOULDER	0.8	20.0
696.2	PLEISTOCENE		CLAY & GRAVEL	23.0	20.8
673.2	PLEISTOCENE		BOULDER	0.6	43.8
672.6	PLEISTOCENE		CLAY	18.9	44.4
653.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	63.3
652.1	CARBONDALE	SPRINGFIELD	COAL	4.3	64.9
647.8	CARBONDALE		UNDERCLAY	1.3	69.2

MAPID: 05785473000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132502

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.657628

DATE COLLECTED: 4 / 10 / 1946

SURFACE ELEVATION (FT.): 715.0 LOGGED (FT.): 74.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2322

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
715.0	PLEISTOCENE		SOIL	1.0	0.0
714.0	PLEISTOCENE		CLAY	20.3	1.0
693.7	PLEISTOCENE		SAND & GRAVEL	14.3	21.3
679.4	PLEISTOCENE		SANDY CLAY	10.7	35.6
668.7	PLEISTOCENE		CLAY	15.0	46.3
653.7	CARBONDALE		DARK SHALE	3.7	61.3
650.0	CARBONDALE		CHERT	0.5	65.0
649.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	65.5
647.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	68.0
645.5	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.5	69.5
642.0	CARBONDALE		UNDERCLAY	1.0	73.0

MAPID: 05785474000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130234

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656823

DATE COLLECTED: 4 / 9 / 1946

SURFACE ELEVATION (FT.): 714.0 LOGGED (FT.): 76.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2321

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.0	PLEISTOCENE		SOIL	18.0	0.0	
696.0	PLEISTOCENE		CLAY & GRAVEL	2.0	18.0	
694.0	PLEISTOCENE		CLAY	30.0	20.0	
664.0	PLEISTOCENE		CLAY	26.0	50.0	SOFT

MAPID: 05785475000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134944

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.657272

DATE COLLECTED: 4 / 9 / 1946

SURFACE ELEVATION (FT.): 713.0 LOGGED (FT.): 82.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2320

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.0	PLEISTOCENE		SOIL	1.0	0.0	
712.0	PLEISTOCENE		CLAY	12.0	1.0	
700.0	PLEISTOCENE		BOULDER	4.8	13.0	SANDSTONE
695.2	PLEISTOCENE		SAND & GRAVEL	21.0	17.8	
674.2	PLEISTOCENE		SANDY CLAY	26.5	38.8	
647.7	CARBONDALE		GRAY SANDSTONE	8.0	65.3	
639.7	CARBONDALE	TURNER MINE	DARK SHALE	1.7	73.3	
638.0	CARBONDALE		BLACK SHALE	2.0	75.0	
636.0	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	3.5	77.0	
632.5	CARBONDALE		UNDERCLAY	1.5	80.5	

MAPID: 05785476000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137207 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659131 DATE COLLECTED: 4 / 8 / 1946

SURFACE ELEVATION (FT.): 711.0 LOGGED (FT.): 68.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2319 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.0	PLEISTOCENE		SOIL	10.0	0.0	
701.0	PLEISTOCENE		CLAY	5.0	10.0	
696.0	PLEISTOCENE		CLAY	5.0	15.0	GRAY
691.0	PLEISTOCENE		CLAY & GRAVEL	10.0	20.0	
681.0	PLEISTOCENE		CLAY	5.0	30.0	GRAY
676.0	PLEISTOCENE		CLAY	20.8	35.0	
655.2	CARBONDALE		BLACK SHALE	3.2	55.8	
652.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	59.0	
651.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	60.0	
649.6	CARBONDALE		CLAYSTONE	1.2	61.4	WHITE TOP
648.4	CARBONDALE		CLAYSTONE	1.2	62.6	WHITE TOP
647.2	CARBONDALE	SPRINGFIELD	COAL	2.9	63.8	
644.3	CARBONDALE		UNDERCLAY	2.2	66.7	

MAPID: 05785477000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137238 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660521 DATE COLLECTED: 4 / 6 / 1946

SURFACE ELEVATION (FT.): 716.0 LOGGED (FT.): 69.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2318 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.0	PLEISTOCENE		SOIL	20.0	0.0	
696.0	PLEISTOCENE		SAND & GRAVEL	3.0	20.0	
693.0	PLEISTOCENE		CLAY & GRAVEL	17.0	23.0	
676.0	PLEISTOCENE		CLAY	3.0	40.0	GREEN
673.0	PLEISTOCENE		CLAY	7.0	43.0	GRAY
666.0	CARBONDALE		DARK SHALE	8.0	50.0	
658.0	CARBONDALE	ST. DAVID	LIMESTONE	2.0	58.0	
656.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.7	60.0	
653.3	CARBONDALE	SPRINGFIELD	COAL	3.9	62.7	HARD
649.4	CARBONDALE		UNDERCLAY	2.4	66.6	

MAPID: 05785478000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133955 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660426 DATE COLLECTED: 4 / 7 / 1946

SURFACE ELEVATION (FT.): 714.0 LOGGED (FT.): 70.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2298 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.0	PLEISTOCENE		SOIL	1.0	0.0	
713.0	PLEISTOCENE		CLAY	11.3	1.0	YELLOW
701.7	PLEISTOCENE		CLAY	15.5	12.3	GRAY
686.2	CARBONDALE		GRAY SHALE	18.9	27.8	
667.3	CARBONDALE		SANDSTONE	1.0	46.7	
666.3	CARBONDALE		DARK SHALE	14.6	47.7	
651.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	62.3	
651.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	63.0	
648.7	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.4	65.3	
644.3	CARBONDALE		UNDERCLAY	0.6	69.7	

MAPID: 05785479000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137055 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662321 DATE COLLECTED: 4 / 5 / 1946

SURFACE ELEVATION (FT.): 719.0 LOGGED (FT.): 85.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2296 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.0	PLEISTOCENE		SOIL	1.0	0.0	
718.0	PLEISTOCENE		CLAY	30.3	1.0	
687.7	PLEISTOCENE		SANDY CLAY	6.5	31.3	
681.2	PLEISTOCENE		SAND	10.0	37.8	GRAY
671.2	PLEISTOCENE		SANDY CLAY	37.5	47.8	

MAPID: 05785496000C **VERSION:** 1 **PROJECT:** N
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.137664 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.660696 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 718.2 **LOGGED (FT.):** 74.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1882 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.2			UNKNOWN	74.2	0.0	NO COAL

MAPID: 05785497000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.13899 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.65916 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 719.7 **LOGGED (FT.):** 74.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1881 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.7			UNKNOWN	74.0	0.0	NO COAL

MAPID: 05785498000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.136748 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.660375 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 718.1 **LOGGED (FT.):** 65.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1880 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.1			UNKNOWN	61.2	0.0	
656.9	CARBONDALE	SPRINGFIELD	COAL	4.0	61.2	

MAPID: 05785499000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136388

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660708

DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.6 LOGGED (FT.): 63.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1879

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.6			UNKNOWN	59.2	0.0	
658.4	CARBONDALE	SPRINGFIELD	COAL	3.8	59.2	

MAPID: 05785500000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138491

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659254

DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.3 LOGGED (FT.): 66.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1878

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.3			UNKNOWN	62.7	0.0	
655.6	CARBONDALE	SPRINGFIELD	COAL	3.7	62.7	

MAPID: 05785501000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138799

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658847

DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.9 LOGGED (FT.): 63.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1877

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.9			UNKNOWN	59.8	0.0	
658.1	CARBONDALE	SPRINGFIELD	COAL	3.4	59.8	

MAPID: 05785502000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.137929 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.659254 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 711.1 **LOGGED (FT.):** 58.8 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1876 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.1			UNKNOWN	54.6	0.0	
656.5	CARBONDALE	SPRINGFIELD	COAL	4.2	54.6	

MAPID: 05785503000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.136859 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.660719 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 718.7 **LOGGED (FT.):** 77.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1875 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.7			UNKNOWN	77.2	0.0	NO COAL

MAPID: 05785504000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.138087 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.65986 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 715.7 **LOGGED (FT.):** 65.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1874 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.7			UNKNOWN	61.7	0.0	
654.0	CARBONDALE	SPRINGFIELD	COAL	4.0	61.7	

MAPID: 05785505000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136338

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661094

DATE COLLECTED:

SURFACE ELEVATION (FT.): 716.5 LOGGED (FT.): 63.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1873

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.5			UNKNOWN	59.3	0.0	
657.2	CARBONDALE	SPRINGFIELD	COAL	3.7	59.3	

MAPID: 05785506000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138697

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659995

DATE COLLECTED:

SURFACE ELEVATION (FT.): 719.4 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1872

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.4			UNKNOWN	75.0	0.0	NO COAL

MAPID: 05785507000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136791

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6611

DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.5 LOGGED (FT.): 81.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1871

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.5			UNKNOWN	81.5	0.0	NO COAL

MAPID: 05785508000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.137804 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.660231 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 713.1 **LOGGED (FT.):** 63.9 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1870 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.1			UNKNOWN	60.0	0.0	
653.1	CARBONDALE	SPRINGFIELD	COAL	3.9	60.0	

MAPID: 05785509000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.137148 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.660971 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 718.2 **LOGGED (FT.):** 77.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1839 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.2			UNKNOWN	77.2	0.0	NO COAL

MAPID: 05785510000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.136813 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.661997 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 717.9 **LOGGED (FT.):** 62.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1838 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.9			UNKNOWN	60.0	0.0	
657.9	CARBONDALE	SPRINGFIELD	COAL	2.2	60.0	

MAPID: 05785511000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136301

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662251

DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.7 LOGGED (FT.): 65.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1837

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.7			UNKNOWN	61.6	0.0	
656.1	CARBONDALE	SPRINGFIELD	COAL	4.0	61.6	

MAPID: 05785512000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.135743

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662262

DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.1 LOGGED (FT.): 67.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1836

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.1			UNKNOWN	63.4	0.0	
653.7	CARBONDALE	SPRINGFIELD	COAL	3.8	63.4	

MAPID: 05785513000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136669

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661711

DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.3 LOGGED (FT.): 64.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1835

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.3			UNKNOWN	61.0	0.0	
656.3	CARBONDALE	SPRINGFIELD	COAL	3.7	61.0	

MAPID: 05785514000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661489

DATE COLLECTED:

SURFACE ELEVATION (FT.): 716.6 LOGGED (FT.): 63.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1834

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.6			UNKNOWN	59.5	0.0	
657.1	CARBONDALE	SPRINGFIELD	COAL	3.9	59.5	

MAPID: 05785515000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.135734

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662038

DATE COLLECTED:

SURFACE ELEVATION (FT.): 716.6 LOGGED (FT.): 67.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1833

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.6			UNKNOWN	63.0	0.0	
653.6	CARBONDALE	SPRINGFIELD	COAL	4.1	63.0	

MAPID: 05785516000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.13067

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661765

DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.3 LOGGED (FT.): 89.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1832

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.3			UNKNOWN	89.2	0.0	NO COAL

MAPID: 05785517000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.135319 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.661848 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 716.3 **LOGGED (FT.):** 67.4 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1831 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
716.3			UNKNOWN	63.4	0.0
652.9	CARBONDALE	SPRINGFIELD	COAL	4.0	63.4

MAPID: 05785518000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.130852 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.661049 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 711.5 **LOGGED (FT.):** 65.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1830 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
711.5			UNKNOWN	62.5	0.0
649.0	CARBONDALE	SPRINGFIELD	COAL	3.2	62.5

MAPID: 05785519000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.134748 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.66195 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 716.3 **LOGGED (FT.):** 67.4 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1829 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
716.3			UNKNOWN	63.4	0.0
652.9	CARBONDALE	SPRINGFIELD	COAL	4.0	63.4

MAPID: 0578552000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.130466 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.660781 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 709.4 **LOGGED (FT.):** 62.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1828 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.4			UNKNOWN	59.5	0.0	
649.9	CARBONDALE	SPRINGFIELD	COAL	2.5	59.5	

MAPID: 05785521000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.130799 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.66079 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 707.5 **LOGGED (FT.):** 75.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1827 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
707.5			UNKNOWN	75.0	0.0	NO COAL

MAPID: 05785522000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.132817 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.661988 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 714.7 **LOGGED (FT.):** 65.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1826 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.7			UNKNOWN	63.4	0.0	
651.3	CARBONDALE	SPRINGFIELD	COAL	0.9	63.4	SOFT
650.4	CARBONDALE	SPRINGFIELD	COAL	1.4	64.3	

MAPID: 05785523000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131198

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66086

DATE COLLECTED:

SURFACE ELEVATION (FT.): 709.0 LOGGED (FT.): 59.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1825

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.0			UNKNOWN	56.5	0.0	
652.5	CARBONDALE	SPRINGFIELD	COAL	3.0	56.5	

MAPID: 05785524000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133069

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662188

DATE COLLECTED:

SURFACE ELEVATION (FT.): 715.4 LOGGED (FT.): 66.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1824

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.4			UNKNOWN	63.3	0.0	
652.1	CARBONDALE	SPRINGFIELD	COAL	3.0	63.3	

MAPID: 05785525000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130488

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660416

DATE COLLECTED:

SURFACE ELEVATION (FT.): 707.8 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1823

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
707.8			UNKNOWN	80.0	0.0	NO COAL

MAPID: 05785526000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130906 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660571 DATE COLLECTED:

SURFACE ELEVATION (FT.): 711.6 LOGGED (FT.): 79.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1822 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.6			UNKNOWN	79.0	0.0	NO COAL

MAPID: 05785527000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133444 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661998 DATE COLLECTED:

SURFACE ELEVATION (FT.): 715.3 LOGGED (FT.): 68.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1821 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.3			UNKNOWN	64.9	0.0	
650.4	CARBONDALE	SPRINGFIELD	COAL	2.8	64.9	
647.6	CARBONDALE	SPRINGFIELD	COAL/CLAYSTONE	0.6	67.7	

MAPID: 05785528000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133936 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662294 DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.3 LOGGED (FT.): 69.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1820 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.3			UNKNOWN	65.4	0.0	
651.9	CARBONDALE	SPRINGFIELD	COAL	3.8	65.4	

MAPID: 05785536000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139395 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655527 DATE COLLECTED:

SURFACE ELEVATION (FT.): 670.6 LOGGED (FT.): 32.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1800 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.6			UNKNOWN	28.0	0.0	
642.6	CARBONDALE	SPRINGFIELD	COAL	4.2	28.0	

MAPID: 05785538000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133878 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661905 DATE COLLECTED:

SURFACE ELEVATION (FT.): 716.3 LOGGED (FT.): 69.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1798 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.3			UNKNOWN	66.0	0.0	
650.3	CARBONDALE	SPRINGFIELD	COAL	3.9	66.0	

MAPID: 05785539000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131469 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660753 DATE COLLECTED:

SURFACE ELEVATION (FT.): 710.8 LOGGED (FT.): 79.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1797 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
710.8			UNKNOWN	79.0	0.0	NO COAL

MAPID: 0578554000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131951

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660781

DATE COLLECTED:

SURFACE ELEVATION (FT.): 712.1 LOGGED (FT.): 66.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1796

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.1			UNKNOWN	62.5	0.0	
649.6	CARBONDALE	SPRINGFIELD	COAL	3.7	62.5	

MAPID: 05785541000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134282

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661679

DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.5 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1795

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.5			UNKNOWN	65.6	0.0	
651.9	CARBONDALE	SPRINGFIELD	COAL	4.4	65.6	

MAPID: 05785542000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132091

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661081

DATE COLLECTED:

SURFACE ELEVATION (FT.): 711.8 LOGGED (FT.): 79.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1794

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.8			UNKNOWN	79.0	0.0	NO COAL

MAPID: 05785543000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131255 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661074 DATE COLLECTED:

SURFACE ELEVATION (FT.): 714.5 LOGGED (FT.): 79.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1793 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.5			UNKNOWN	79.0	0.0	NO COAL; UNDERCLAY

MAPID: 05785544000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130119 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661276 DATE COLLECTED:

SURFACE ELEVATION (FT.): 715.6 LOGGED (FT.): 64.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1792 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.6			UNKNOWN	61.0	0.0	
654.6	CARBONDALE	SPRINGFIELD	COAL	3.8	61.0	

MAPID: 05785545000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130662 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661296 DATE COLLECTED:

SURFACE ELEVATION (FT.): 716.2 LOGGED (FT.): 65.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1791 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.2			UNKNOWN	61.7	0.0	
654.5	CARBONDALE	SPRINGFIELD	COAL	3.7	61.7	

MAPID: 05785546000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.131705 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.661265 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 713.0 **LOGGED (FT.):** 74.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1790 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.0			UNKNOWN	74.0	0.0	NO COAL; UNDERCLAY

MAPID: 05785547000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.139169 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655371 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 659.1 **LOGGED (FT.):** 24.1 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1789 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.1			UNKNOWN	23.6	0.0	
635.5	CARBONDALE	SPRINGFIELD	CLAY & COAL	0.5	23.6	

MAPID: 05785548000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.135477 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.656108 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 716.7 **LOGGED (FT.):** 85.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1788 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.7			UNKNOWN	85.0	0.0	NO COAL

MAPID: 0578555000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.136692 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.65672 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 714.0 **LOGGED (FT.):** 82.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1785 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.0			UNKNOWN	78.0	0.0	
636.0	CARBONDALE	SPRINGFIELD	COAL	4.2	78.0	

MAPID: 05785551000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.136809 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655654 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 716.7 **LOGGED (FT.):** 94.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1784 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.7			UNKNOWN	94.0	0.0	COAL

MAPID: 05785552000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.13453 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.656014 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 666.5 **LOGGED (FT.):** 69.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1780 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.5			UNKNOWN	69.0	0.0	NO COAL

MAPID: 05785553000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.133441 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.661695 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 715.6 **LOGGED (FT.):** 80.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1779 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.6			UNKNOWN	80.0	0.0	NO COAL

MAPID: 05785554000C **VERSION:** 1 **PROJECT:** NCRD00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.132416 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.661259 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 712.2 **LOGGED (FT.):** 64.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1778 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.2			UNKNOWN	60.8	0.0	
651.4	CARBONDALE	SPRINGFIELD	COAL	3.4	60.8	

MAPID: 05785555000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.13312 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.661465 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 714.6 **LOGGED (FT.):** 69.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1777 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.6			UNKNOWN	65.7	0.0	
648.9	CARBONDALE	SPRINGFIELD	COAL	4.0	65.7	

MAPID: 05785556000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.135718 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.656397 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 716.7 **LOGGED (FT.):** 94.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1776 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.7			UNKNOWN	94.0	0.0	NO COAL

MAPID: 05785557000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.132207 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.658297 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 720.5 **LOGGED (FT.):** 71.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1775 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.5			UNKNOWN	67.4	0.0	
653.1	CARBONDALE	SPRINGFIELD	COAL	3.8	67.4	

MAPID: 05785558000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.135034 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.656417 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 701.7 **LOGGED (FT.):** 80.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1774 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.7			UNKNOWN	80.0	0.0	NO COAL

MAPID: 05785559000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136806 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656479 DATE COLLECTED:

SURFACE ELEVATION (FT.): 706.5 LOGGED (FT.): 79.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1773 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.5			UNKNOWN	75.0	0.0	
631.5	CARBONDALE	SPRINGFIELD	COAL	1.5	75.0	
630.0	CARBONDALE		SANDSTONE	2.5	76.5	

MAPID: 05785560000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137265 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656744 DATE COLLECTED:

SURFACE ELEVATION (FT.): 706.0 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1772 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.0			UNKNOWN	69.7	0.0	
636.3	CARBONDALE	SPRINGFIELD	COAL	4.3	69.7	

MAPID: 05785561000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.135547 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656709 DATE COLLECTED:

SURFACE ELEVATION (FT.): 716.7 LOGGED (FT.): 84.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1771 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.7			UNKNOWN	80.9	0.0	
635.8	CARBONDALE	SPRINGFIELD	COAL	4.0	80.9	

MAPID: 05785562000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.13684 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658214 DATE COLLECTED:

SURFACE ELEVATION (FT.): 715.4 LOGGED (FT.): 77.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1770 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.4			UNKNOWN	72.7	0.0	
642.7	CARBONDALE	SPRINGFIELD	COAL	4.3	72.7	

MAPID: 05785563000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134509 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656825 DATE COLLECTED:

SURFACE ELEVATION (FT.): 704.3 LOGGED (FT.): 71.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1769 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.3			UNKNOWN	68.1	0.0	
636.2	CARBONDALE	SPRINGFIELD	COAL	1.0	68.1	
635.2	CARBONDALE	SPRINGFIELD	COAL WITH SHALE	0.6	69.1	
634.6	CARBONDALE	SPRINGFIELD	COAL	1.3	69.7	

MAPID: 05785564000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134206 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656598 DATE COLLECTED:

SURFACE ELEVATION (FT.): 712.0 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1768 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.0			UNKNOWN	90.0	0.0	NO COAL

MAPID: 05785565000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134052 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656803 DATE COLLECTED:

SURFACE ELEVATION (FT.): 711.7 LOGGED (FT.): 76.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1767 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.7			UNKNOWN	72.7	0.0	
639.0	CARBONDALE	SPRINGFIELD	COAL	4.1	72.7	

MAPID: 05785566000C VERSION: 1

PROJECT: NCRD00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133381 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656748 DATE COLLECTED:

SURFACE ELEVATION (FT.): 702.1 LOGGED (FT.): 67.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1766 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.1			UNKNOWN	63.9	0.0	
638.2	CARBONDALE	SPRINGFIELD	COAL	4.0	63.9	

MAPID: 05785567000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133437 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656456 DATE COLLECTED:

SURFACE ELEVATION (FT.): 686.7 LOGGED (FT.): 55.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1765 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
686.7			UNKNOWN	54.0	0.0	
632.7	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	1.7	54.0	

MAPID: 05785568000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.131253 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.657364 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 719.6 **LOGGED (FT.):** 85.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1764 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.6			UNKNOWN	85.0	0.0	NO COAL

MAPID: 05785569000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.13159 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.657334 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 719.1 **LOGGED (FT.):** 74.9 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1763 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.1			UNKNOWN	70.7	0.0	
648.4	CARBONDALE	SPRINGFIELD	COAL	4.2	70.7	

MAPID: 05785570000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.13192 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.658218 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 720.5 **LOGGED (FT.):** 76.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1762 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.5			UNKNOWN	76.0	0.0	NO COAL; UNDERCLAY

MAPID: 05785571000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.130703 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.66015 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 716.9 **LOGGED (FT.):** 80.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1761 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.9			UNKNOWN	80.0	0.0	NO COAL

MAPID: 05785572000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.131166 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.660145 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 717.7 **LOGGED (FT.):** 64.1 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1760 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.7			UNKNOWN	61.5	0.0	
656.2	CARBONDALE	SPRINGFIELD	COAL	2.6	61.5	

MAPID: 05785573000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.131898 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.657366 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 719.5 **LOGGED (FT.):** 76.6 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1759 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.5			UNKNOWN	72.6	0.0	
646.9	CARBONDALE	SPRINGFIELD	COAL	4.0	72.6	

MAPID: 05785574000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131458

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659184

DATE COLLECTED:

SURFACE ELEVATION (FT.): 720.7 LOGGED (FT.): 63.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1758

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.7			UNKNOWN	62.4	0.0	
658.3	CARBONDALE	SPRINGFIELD	COAL	1.0	62.4	

MAPID: 05785575000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131821

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659184

DATE COLLECTED:

SURFACE ELEVATION (FT.): 720.1 LOGGED (FT.): 66.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1757

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.1			UNKNOWN	62.2	0.0	
657.9	CARBONDALE	SPRINGFIELD	COAL	3.8	62.2	

MAPID: 05785576000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131759

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659607

DATE COLLECTED:

SURFACE ELEVATION (FT.): 719.1 LOGGED (FT.): 64.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1756

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.1			UNKNOWN	61.2	0.0	
657.9	CARBONDALE	SPRINGFIELD	COAL	3.5	61.2	

MAPID: 05785577000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131551 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655803 DATE COLLECTED:

SURFACE ELEVATION (FT.): 708.9 LOGGED (FT.): 72.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1755 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
708.9			UNKNOWN	68.7	0.0	
640.2	CARBONDALE	SPRINGFIELD	COAL	2.2	68.7	SOFT
638.0	CARBONDALE	SPRINGFIELD	COAL	1.2	70.9	

MAPID: 05785578000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.13233 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655863 DATE COLLECTED:

SURFACE ELEVATION (FT.): 692.9 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1751 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
692.9			UNKNOWN	72.3	0.0	
620.6	CARBONDALE	SPRINGFIELD	CLAY & COAL	1.7	72.3	

MAPID: 05785579000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131656 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655397 DATE COLLECTED:

SURFACE ELEVATION (FT.): 693.8 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1749 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.8			UNKNOWN	50.9	0.0	
642.9	CARBONDALE	SPRINGFIELD	COAL	4.1	50.9	

MAPID: 0578558000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138939

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655668

DATE COLLECTED:

SURFACE ELEVATION (FT.): 651.6 LOGGED (FT.): 15.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1747

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.6			UNKNOWN	13.2	0.0	
638.4	CARBONDALE	SPRINGFIELD	COAL/CLAYSTONE	1.8	13.2	

MAPID: 05785581000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139223

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655727

DATE COLLECTED:

SURFACE ELEVATION (FT.): 670.4 LOGGED (FT.): 27.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1746

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.4			UNKNOWN	23.3	0.0	
647.1	CARBONDALE	SPRINGFIELD	COAL	2.6	23.3	
644.5	CARBONDALE	SPRINGFIELD	UNKNOWN	0.4	25.9	
644.1	CARBONDALE	SPRINGFIELD	COAL	1.3	26.3	

MAPID: 05785582000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138242

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655462

DATE COLLECTED:

SURFACE ELEVATION (FT.): 664.6 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1742

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.6			UNKNOWN	45.0	0.0	NO COAL

MAPID: 05785583000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.137964 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655168 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 662.4 **LOGGED (FT.):** 39.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1741 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.4			UNKNOWN	39.0	0.0	NO COAL

MAPID: 05785586000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.137388 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655513 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 706.6 **LOGGED (FT.):** 87.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1736 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.6			UNKNOWN	87.2	0.0	NO COAL

MAPID: 05785589000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.134049 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655332 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 660.0 **LOGGED (FT.):** 30.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1731 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNKNOWN	30.0	0.0	NO COAL

MAPID: 05785590000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.136263 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.656474 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 715.6 **LOGGED (FT.):** 100.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1722 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.6			UNKNOWN	100.0	0.0	NO COAL

MAPID: 05785591000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.136049 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.656069 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 717.1 **LOGGED (FT.):** 87.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X210A **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.1			UNKNOWN	87.0	0.0	NO COAL

MAPID: 05785593000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.135053 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.656088 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 704.5 **LOGGED (FT.):** 77.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X211C **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.5			UNKNOWN	77.0	0.0	NO COAL

MAPID: 05785594000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.136035 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.6569 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 715.4 **LOGGED (FT.):** 81.3 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X235B **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.4			UNKNOWN	77.0	0.0	
638.4	CARBONDALE	SPRINGFIELD	COAL	4.3	77.0	

MAPID: 05785595000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.13512 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656725 DATE COLLECTED:

SURFACE ELEVATION (FT.): 712.0 LOGGED (FT.): 82.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1721 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.0			UNKNOWN	78.5	0.0	
633.5	CARBONDALE	SPRINGFIELD	COAL	4.1	78.5	

MAPID: 05785596000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133856 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.657135 DATE COLLECTED:

SURFACE ELEVATION (FT.): 712.6 LOGGED (FT.): 78.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1720 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.6			UNKNOWN	74.1	0.0	
638.5	CARBONDALE	SPRINGFIELD	COAL	4.0	74.1	

MAPID: 05785597000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130189 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660192 DATE COLLECTED:

SURFACE ELEVATION (FT.): 714.7 LOGGED (FT.): 93.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1719 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.7			UNKNOWN	93.2	0.0	NO COAL

MAPID: 05785598000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131702

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660065

DATE COLLECTED:

SURFACE ELEVATION (FT.): 716.1 LOGGED (FT.): 67.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1718

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.1			UNKNOWN	63.0	0.0	
653.1	CARBONDALE	SPRINGFIELD	COAL	4.0	63.0	DIRTY

MAPID: 05785599000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131867

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658757

DATE COLLECTED:

SURFACE ELEVATION (FT.): 719.9 LOGGED (FT.): 67.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1717

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.9			UNKNOWN	64.4	0.0	
655.5	CARBONDALE	SPRINGFIELD	COAL	3.2	64.4	

MAPID: 05785600000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132529

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656642

DATE COLLECTED:

SURFACE ELEVATION (FT.): 712.1 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1716

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.1			UNKNOWN	80.0	0.0	NO COAL

MAPID: 05785601000C **VERSION:** 1 **PROJECT:** NCRDS
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.131949 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.657744 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 719.8 **LOGGED (FT.):** 74.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1715 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.8			UNKNOWN	70.7	0.0	
649.1	CARBONDALE	SPRINGFIELD	COAL	4.0	70.7	

MAPID: 05785602000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.131862 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.657007 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 719.3 **LOGGED (FT.):** 95.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1714 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.3			UNKNOWN	95.0	0.0	NO COAL

MAPID: 05785603000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.133769 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655999 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 702.8 **LOGGED (FT.):** 76.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1713 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.8			UNKNOWN	76.6	0.0	
626.2	CARBONDALE	SPRINGFIELD	COAL	0.1	76.6	

MAPID: 05785606000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.130362 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.65573 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 704.4 **LOGGED (FT.):** 95.3 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1704 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.4			UNKNOWN	95.3	0.0	NO COAL

MAPID: 05785607000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.131364 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655553 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 702.7 **LOGGED (FT.):** 100.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1703 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.7			UNKNOWN	100.0	0.0	NO COAL

MAPID: 05785612000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.130948 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655263 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 678.5 **LOGGED (FT.):** 55.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1695 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.5			UNKNOWN	55.0	0.0	NO COAL

MAPID: 05785703000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.131405 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.656094 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 710.1 **LOGGED (FT.):** 77.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X212A **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
710.1			UNKNOWN	77.0	0.0	NO COAL

MAPID: 05785704000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.132553 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.656107 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 693.6 **LOGGED (FT.):** 85.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X212C **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.6			UNKNOWN	85.0	0.0	NO COAL

MAPID: 05785705000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.130202 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.656122 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 714.3 **LOGGED (FT.):** 87.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X213C **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.3			UNKNOWN	87.0	0.0	NO COAL

MAPID: 05785707000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.133562 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.657845 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 717.3 **LOGGED (FT.):** 76.8 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X236A **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.3			UNKNOWN	72.5	0.0	
644.8	CARBONDALE	SPRINGFIELD	COAL	4.3	72.5	

MAPID: 05785708000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.132554 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.657009 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 715.8 **LOGGED (FT.):** 76.8 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X237 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.8			UNKNOWN	73.0	0.0	
642.8	CARBONDALE	SPRINGFIELD	COAL	3.8	73.0	

MAPID: 05785709000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.131369 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.656985 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 719.3 **LOGGED (FT.):** 87.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X237B **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.3			UNKNOWN	87.0	0.0	NO COAL

MAPID: 05785710000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.131352 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.657901 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 718.3 **LOGGED (FT.):** 66.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X237A **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.3			UNKNOWN	65.0	0.0	
653.3	CARBONDALE	SPRINGFIELD	COAL	1.0	65.0	SOFT

MAPID: 05785711000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.131339 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.658801 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 720.0 **LOGGED (FT.):** 77.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X262B **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.0			UNKNOWN	77.0	0.0	NO COAL

MAPID: 05785712000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.139425 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.658838 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 704.7 **LOGGED (FT.):** 77.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X259 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.7			UNKNOWN	77.0	0.0	NO COAL

MAPID: 05785713000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 23 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.138262 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.659627 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 716.7 **LOGGED (FT.):** 67.1 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST X259A **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.7			UNKNOWN	63.0	0.0	
653.7	CARBONDALE	SPRINGFIELD	COAL	2.0	63.0	
651.7	CARBONDALE	SPRINGFIELD	COAL	2.1	65.0	

MAPID: 05785714000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138283

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658764

DATE COLLECTED:

SURFACE ELEVATION (FT.): 710.6 LOGGED (FT.): 58.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X259B

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
710.6			UNKNOWN	54.0	0.0	
656.6	CARBONDALE	SPRINGFIELD	COAL	4.0	54.0	

MAPID: 05785715000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.13601

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660144

DATE COLLECTED:

SURFACE ELEVATION (FT.): 711.7 LOGGED (FT.): 63.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X260F

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.7			UNKNOWN	59.0	0.0	
652.7	CARBONDALE	SPRINGFIELD	COAL	4.1	59.0	

MAPID: 05785716000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131329

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659703

DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.6 LOGGED (FT.): 62.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X262A

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.6			UNKNOWN	60.0	0.0	
658.6	CARBONDALE	SPRINGFIELD	COAL	2.0	60.0	SOFT

MAPID: 05785718000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138251

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660403

DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.4 LOGGED (FT.): 66.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X284B

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.4			UNKNOWN	64.0	0.0	
653.4	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	2.1	64.0	

MAPID: 05785719000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137026

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661491

DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.5 LOGGED (FT.): 63.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X285C

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.5			UNKNOWN	61.0	0.0	
656.5	CARBONDALE	SPRINGFIELD	COAL	2.5	61.0	SOFT

MAPID: 05785720000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131305

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660619

DATE COLLECTED:

SURFACE ELEVATION (FT.): 709.9 LOGGED (FT.): 61.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X287B

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.9			UNKNOWN	57.0	0.0	
652.9	CARBONDALE	SPRINGFIELD	COAL	4.4	57.0	

MAPID: 05785721000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.13583 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661483 DATE COLLECTED:

SURFACE ELEVATION (FT.): 716.3 LOGGED (FT.): 66.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X285A WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
716.3			UNKNOWN	63.0	0.0
653.3	CARBONDALE	SPRINGFIELD	COAL	3.0	63.0

MAPID: 05785722000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.13365 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66152 DATE COLLECTED:

SURFACE ELEVATION (FT.): 715.5 LOGGED (FT.): 69.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X286A WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
715.5			UNKNOWN	66.0	0.0
649.5	CARBONDALE	SPRINGFIELD	COAL	3.9	66.0

MAPID: 05785723000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134718 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661489 DATE COLLECTED:

SURFACE ELEVATION (FT.): 716.6 LOGGED (FT.): 68.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X286C WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
716.6			UNKNOWN	65.0	0.0
651.6	CARBONDALE	SPRINGFIELD	COAL	3.9	65.0

MAPID: 05785724000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132475 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661476 DATE COLLECTED:

SURFACE ELEVATION (FT.): 713.1 LOGGED (FT.): 61.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X287C WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.1			UNKNOWN	59.0	0.0	
654.1	CARBONDALE		UNKNOWN	1.0	59.0	SHALE OR SOFT COAL
653.1	CARBONDALE	SPRINGFIELD	COAL	1.5	60.0	FAIR

MAPID: 05785725000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131287 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661461 DATE COLLECTED:

SURFACE ELEVATION (FT.): 716.6 LOGGED (FT.): 77.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X287A WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.6			UNKNOWN	77.0	0.0	NO COAL

MAPID: 05785726000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130103 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661574 DATE COLLECTED:

SURFACE ELEVATION (FT.): 715.7 LOGGED (FT.): 63.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X288C WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.7			UNKNOWN	61.0	0.0	
654.7	CARBONDALE	SPRINGFIELD	COAL	2.5	61.0	

MAPID: 05786598000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 23 QUARTERS/FOOTAGES: 983' S line, 330' E line of SE SW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131302 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.657965 DATE COLLECTED: 5 / 16 / 1963

SURFACE ELEVATION (FT.): 718.3 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE X237A WELL TYPE: Coal Test

COMMENT: NE FAIRVIEW BOX 47

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.3	PLEISTOCENE		CLAY	14.0	0.0	
704.3	PLEISTOCENE		CLAY	8.0	14.0	
696.3	PLEISTOCENE		SAND & GRAVEL	37.0	22.0	
659.3	CARBONDALE		SHALE	6.0	59.0	SOFT
653.3	CARBONDALE	SPRINGFIELD	COAL	1.0	65.0	SOFT
652.3	CARBONDALE		SHALE	6.0	66.0	SOFT
646.3	CARBONDALE		SANDY SHALE	15.0	72.0	

MAPID: 05784954000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101459 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.666354 DATE COLLECTED: 5 / 20 / 1975

SURFACE ELEVATION (FT.): 732.1 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23155 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.1	PLEISTOCENE		SOIL	1.0	0.0	
731.1	PLEISTOCENE		CLAY	24.0	1.0	
707.1	PLEISTOCENE		CLAY, SAND & GRAVEL	26.0	25.0	YELLOW
681.1	PLEISTOCENE		CLAY, SAND & GRAVEL	31.6	51.0	GRAY
649.5	CARBONDALE		GRAY SHALE	5.0	82.6	
644.5	CARBONDALE	ST. DAVID	LIMESTONE	0.3	87.6	
644.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	87.9	
642.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	89.7	
641.8	CARBONDALE	SPRINGFIELD	COAL	4.1	90.3	
637.7	CARBONDALE		UNDERCLAY	2.6	94.4	

MAPID: 05784955000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110958

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667865

DATE COLLECTED: 5 / 27 / 1975

SURFACE ELEVATION (FT.): 726.0 LOGGED (FT.): 88.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23161

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.0	PLEISTOCENE		SOIL	1.0	0.0	
725.0	PLEISTOCENE		CLAY	26.0	1.0	YELLOW
699.0	PLEISTOCENE		CLAY	12.5	27.0	GRAY
686.5	PLEISTOCENE		CLAY, SAND & GRAVEL	25.5	39.5	
661.0	PLEISTOCENE		CLAY & GRAVEL	13.5	65.0	
647.5	CARBONDALE	ST. DAVID	LIMESTONE	0.3	78.5	
647.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	78.8	
645.6	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	80.4	
644.8	CARBONDALE	SPRINGFIELD	COAL	4.8	81.2	
640.0	CARBONDALE		UNDERCLAY	2.0	86.0	

MAPID: 05784957000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.111038

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662589

DATE COLLECTED: 5 / 28 / 1975

SURFACE ELEVATION (FT.): 722.1 LOGGED (FT.): 101.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23163

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.1	PLEISTOCENE		SOIL	1.0	0.0	
721.1	PLEISTOCENE		CLAY	24.0	1.0	
697.1	PLEISTOCENE		CLAY, SAND & GRAVEL	17.0	25.0	
680.1	PLEISTOCENE		CLAY, SAND & GRAVEL	59.0	42.0	

MAPID: 05784958000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110979

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667387

DATE COLLECTED: 5 / 29 / 1975

SURFACE ELEVATION (FT.): 725.7 LOGGED (FT.): 96.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23164

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.7	PLEISTOCENE		SOIL	1.0	0.0	
724.7	PLEISTOCENE		CLAY	21.0	1.0	
703.7	PLEISTOCENE		CLAY, SAND & GRAVEL	13.0	22.0	YELLOW
690.7	PLEISTOCENE		CLAY, SAND & GRAVEL	61.0	35.0	GRAY

MAPID: 05784965000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101461

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.664955

DATE COLLECTED: 7 / 29 / 1975

SURFACE ELEVATION (FT.): 727.0 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23313

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.0	PLEISTOCENE		SANDY CLAY	20.6	0.0	
706.4	PLEISTOCENE		CLAY & GRAVEL	16.9	20.6	
689.5	CARBONDALE		SANDSTONE	17.5	37.5	
672.0	CARBONDALE		GRAY SHALE	24.8	55.0	
647.2	CARBONDALE	ST. DAVID	LIMESTONE	0.7	79.8	
646.5	CARBONDALE	TURNER MINE	DARK SHALE	1.5	80.5	
645.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	82.0	
644.0	CARBONDALE	SPRINGFIELD	COAL	3.5	83.0	
640.5	CARBONDALE		UNDERCLAY	2.0	86.5	
638.5	CARBONDALE		GRAY SHALE	1.5	88.5	

MAPID: 05784968000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101421

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.668686

DATE COLLECTED: 5 / 21 / 1975

SURFACE ELEVATION (FT.): 731.6 LOGGED (FT.): 111.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23156

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.6	PLEISTOCENE		SOIL	1.0	0.0	
730.6	PLEISTOCENE		CLAY	25.0	1.0	
705.6	PLEISTOCENE		CLAY & GRAVEL	25.0	26.0	
680.6	PLEISTOCENE		CLAY, SAND & GRAVEL	20.0	51.0	
660.6	PLEISTOCENE		SAND & GRAVEL	24.2	71.0	
636.4	CARBONDALE		LIMESTONE	0.4	95.2	
636.0	CARBONDALE		BLACK SHALE	4.6	95.6	
631.4	CARBONDALE		LIMESTONE	2.0	100.2	
629.4	CARBONDALE		GRAY SHALE	8.8	102.2	

MAPID: 05785042000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103939

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66241

DATE COLLECTED:

SURFACE ELEVATION (FT.): 726.7 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.7			UNKNOWN	110.0	0.0	NO COAL

MAPID: 05785045000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116208

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648338

DATE COLLECTED: 4 / 17 / 1963

SURFACE ELEVATION (FT.): 728.7 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT28

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.7	PLEISTOCENE		CLAY	16.0	0.0	
712.7	CARBONDALE		SHALE	15.0	16.0	FAULTY
697.7	CARBONDALE		GRAY SHALE	12.0	31.0	FAULTY
685.7	CARBONDALE		SHALE	4.0	43.0	LIGHT GREEN
681.7	CARBONDALE		GRAY SHALE	11.0	47.0	
670.7	CARBONDALE		DARK SHALE	3.0	58.0	LIMESTONE STREAKS
667.7	CARBONDALE		GRAY SHALE	12.0	61.0	LIMESTONE STREAKS
655.7	CARBONDALE		DARK SHALE	7.5	73.0	
648.2	CARBONDALE		LIMESTONE	1.0	80.5	HARD
647.2	CARBONDALE		DARK SHALE	1.0	81.5	
646.2	CARBONDALE	TURNER MINE	DARK SHALE	0.5	82.5	
645.7	CARBONDALE	TURNER MINE	DARK SHALE	1.0	83.0	
644.7	CARBONDALE	SPRINGFIELD	COAL	3.9	84.0	GOOD
640.8	CARBONDALE		UNDERCLAY	2.1	87.9	

MAPID: 05785046000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101557

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.665956

DATE COLLECTED: 3 / 23 / 1963

SURFACE ELEVATION (FT.): 773.7 LOGGED (FT.): 95.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT10

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
773.7	PLEISTOCENE		CLAY	17.0	0.0	
756.7	CARBONDALE		SHALE	12.0	17.0	FAULTY
744.7	CARBONDALE		GRAY SHALE	41.0	29.0	FAULTY WITH GRAVEL STREAKS
703.7	CARBONDALE		GRAY SHALE	7.0	70.0	
696.7	CARBONDALE		DARK SHALE	9.5	77.0	
687.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	86.5	
686.2	CARBONDALE	SPRINGFIELD	COAL	4.7	87.5	GOOD
681.5	CARBONDALE		UNDERCLAY	2.8	92.2	

MAPID: 05785047000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107302

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.668692

DATE COLLECTED: 3 / 23 / 1963

SURFACE ELEVATION (FT.): 729.6 LOGGED (FT.): 93.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT11

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.6	PLEISTOCENE		CLAY	1.0	0.0	
728.6	CARBONDALE		SHALE	25.0	1.0	FAULTY
703.6	CARBONDALE		GRAY SHALE	25.0	26.0	FAULTY
678.6	CARBONDALE		GRAY SHALE	11.0	51.0	
667.6	CARBONDALE		DARK SHALE	3.0	62.0	
664.6	CARBONDALE		GRAY SHALE	11.0	65.0	
653.6	CARBONDALE		DARK SHALE	6.0	76.0	
647.6	CARBONDALE	ST. DAVID	LIMESTONE	1.0	82.0	
646.6	CARBONDALE	TURNER MINE	DARK SHALE	1.5	83.0	
645.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	84.5	
643.2	CARBONDALE	SPRINGFIELD	COAL	3.8	86.4	
639.4	CARBONDALE		UNDERCLAY	2.8	90.2	

MAPID: 05785048000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106105

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66776

DATE COLLECTED: 3 / 30 / 1963

SURFACE ELEVATION (FT.): 730.4 LOGGED (FT.): 89.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT12

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.4	PLEISTOCENE		CLAY	2.0	0.0	
728.4	CARBONDALE		SHALE	38.0	2.0	FAULTY
690.4	CARBONDALE		GRAY SHALE	16.5	40.0	FAULTY
673.9	CARBONDALE		DARK SHALE	2.5	56.5	
671.4	CARBONDALE		GRAY SHALE	13.0	59.0	
658.4	CARBONDALE		DARK SHALE	6.0	72.0	
652.4	CARBONDALE	TURNER MINE	BLACK SHALE	4.5	78.0	THICKNESS & DEPTH ARE ESTIMATED
647.9	CARBONDALE	SPRINGFIELD	COAL	3.5	82.5	THICKNESS & DEPTH ARE ESTIMATED
644.4	CARBONDALE		UNDERCLAY	3.0	86.0	THICKNESS & DEPTH ARE ESTIMATED

MAPID: 05785049000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101428

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667775

DATE COLLECTED: 4 / 30 / 1963

SURFACE ELEVATION (FT.): 734.3 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT13

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.3	PLEISTOCENE		CLAY	16.5	0.0	
717.8	CARBONDALE		SHALE	3.5	16.5	FAULTY
714.3	CARBONDALE		GRAY SHALE	4.0	20.0	FAULTY
710.3	CARBONDALE		GRAY SHALE	8.0	24.0	WITH GRAVEL STREAKS
702.3	CARBONDALE		GRAY SHALE	58.0	32.0	FAULTY WITH GRAVEL STREAKS
644.3	CARBONDALE		GRAY SHALE	20.0	90.0	WITH GRAVEL STREAKS

MAPID: 05785050000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103847

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667683

DATE COLLECTED: 3 / 30 / 1963

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT14

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.0	PLEISTOCENE		CLAY	20.0	0.0	
712.0	CARBONDALE		SHALE	8.0	20.0	FAULTY
704.0	CARBONDALE		GRAY SHALE	62.0	28.0	FAULTY
642.0	CARBONDALE		SHALE & SANDSTONE	20.0	90.0	FAULTY

MAPID: 05785051000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102683

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66677

DATE COLLECTED: 4 / 30 / 1963

SURFACE ELEVATION (FT.): 734.3 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT15

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.3	PLEISTOCENE		CLAY	18.0	0.0	
716.3	CARBONDALE		SHALE	2.0	18.0	FAULTY WITH GRAVEL STREAKS
714.3	CARBONDALE		GRAY SHALE	4.0	20.0	FAULTY
710.3	CARBONDALE		GRAY SHALE	7.0	24.0	FAULTY WITH GRAVEL STREAKS
703.3	CARBONDALE		GRAY SHALE	31.0	31.0	WITH GRAVEL STREAKS
672.3	CARBONDALE		GRAY SHALE	5.0	62.0	FAULTY WITH GRAVEL STREAKS
667.3	CARBONDALE		CALCAREOUS SHALE	3.0	67.0	
664.3	CARBONDALE		SHALE & SANDSTONE	22.0	70.0	FAULTY
642.3	CARBONDALE		SANDSTONE/SHALE	18.0	92.0	

MAPID: 05785052000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120157

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654158

DATE COLLECTED: 4 / 31 / 1963

SURFACE ELEVATION (FT.): 730.8 LOGGED (FT.): 92.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT16

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.8	PLEISTOCENE		CLAY	17.0	0.0	
713.8	CARBONDALE		SHALE	11.0	17.0	FAULTY
702.8	CARBONDALE		GRAY SHALE	36.0	28.0	FAULTY
666.8	CARBONDALE		GRAY SHALE	11.0	64.0	FAULTY
655.8	CARBONDALE		DARK SHALE	7.5	75.0	
648.3	CARBONDALE	ST. DAVID	LIMESTONE	0.5	82.5	
647.8	CARBONDALE		DARK SHALE	1.0	83.0	
646.8	CARBONDALE	TURNER MINE	DARK SHALE	0.5	84.0	
646.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	84.5	
645.3	CARBONDALE	SPRINGFIELD	COAL	4.0	85.5	GOOD
641.3	CARBONDALE		UNDERCLAY	2.5	89.5	

MAPID: 05785053000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121153

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653298

DATE COLLECTED: 4 / 2 / 1963

SURFACE ELEVATION (FT.): 729.9 LOGGED (FT.): 103.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT17

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.9	PLEISTOCENE		CLAY	20.0	0.0	
709.9	CARBONDALE		GRAY SHALE	6.0	20.0	FAULTY
703.9	CARBONDALE		GRAY SHALE	8.0	26.0	FAULTY
695.9	CARBONDALE		SHALE	8.0	34.0	& GRAVEL
687.9	CARBONDALE		GRAY SHALE	48.0	42.0	& GRAVEL
639.9	CARBONDALE		GRAY SHALE	12.0	90.0	FAULTY
627.9	CARBONDALE		LIMESTONE	0.7	102.0	
627.2	CARBONDALE		GRAY SHALE	0.3	102.7	

MAPID: 05785054000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121115

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651491

DATE COLLECTED: 4 / 2 / 1963

SURFACE ELEVATION (FT.): 730.8 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT18

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.8	PLEISTOCENE		CLAY	12.0	0.0	
718.8	CARBONDALE		GRAY SHALE	18.0	12.0	FAULTY
700.8	CARBONDALE		GRAY SHALE	56.0	30.0	FAULTY WITH SAND AND GRAVEL
644.8	CARBONDALE	SPRINGFIELD	COAL	0.3	86.0	
644.5	CARBONDALE		SHALE	3.8	86.3	FAULTY WITH SAND AND GRAVEL

MAPID: 05785055000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117496

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638046

DATE COLLECTED: 3 / 20 / 1963

SURFACE ELEVATION (FT.): 724.9 LOGGED (FT.): 150.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT2

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.9	PLEISTOCENE		CLAY	24.0	0.0	
700.9	CARBONDALE		GRAY SHALE	96.0	24.0	FAULTY
604.9	CARBONDALE		GRAY SHALE	10.0	120.0	FAULTY & BOULDERS
594.9	CARBONDALE		SHALE	20.0	130.0	AND SAND

MAPID: 05785056000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106308

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662387

DATE COLLECTED: 4 / 20 / 1963

SURFACE ELEVATION (FT.): 725.3 LOGGED (FT.): 130.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT3

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.3	PLEISTOCENE		CLAY	21.0	0.0	
704.3	CARBONDALE		SHALE	4.0	21.0	FAULTY
700.3	CARBONDALE		GRAY SHALE	14.0	25.0	FAULTY
686.3	CARBONDALE		SHALE	21.8	39.0	FAULTY
664.5	CARBONDALE		GRAY SHALE	52.8	60.8	FAULTY
611.8	CARBONDALE		LIMESTONE	1.0	113.5	CAPROCK
610.8	CARBONDALE		SHALE & SANDSTONE	5.5	114.5	FAULTY
605.3	CARBONDALE		SANDSTONE	10.0	120.0	

MAPID: 05785057000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11634

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649772

DATE COLLECTED: 4 / 21 / 1963

SURFACE ELEVATION (FT.): 726.0 LOGGED (FT.): 130.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT4

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.0	PLEISTOCENE		CLAY	14.5	0.0	
711.5	CARBONDALE		SHALE	7.0	14.5	FAULTY
704.5	CARBONDALE		GRAY SHALE	2.5	21.5	FAULTY
702.0	CARBONDALE		SHALE & SANDSTONE	2.0	24.0	
700.0	CARBONDALE		CALCAREOUS SHALE	3.0	26.0	
697.0	CARBONDALE	HERRIN	SHALE/COAL	8.0	29.0	
689.0	CARBONDALE		GRAY SHALE	3.0	37.0	FAULTY
686.0	CARBONDALE		GRAY SHALE	11.5	40.0	& GRAVEL STREAKS
674.5	CARBONDALE		GRAY SHALE	8.0	51.5	FAULTY
666.5	CARBONDALE		SANDSTONE	0.5	59.5	SOFT
666.0	CARBONDALE		GRAY SHALE	7.0	60.0	FAULTY WITH GRAVEL
659.0	CARBONDALE		GRAY SHALE	19.0	67.0	FAULTY
640.0	CARBONDALE		GRAY SHALE	4.5	86.0	
635.5	CARBONDALE		SHALE & SANDSTONE	4.0	90.5	
631.5	CARBONDALE		SANDSTONE	1.0	94.5	SOFT
630.5	CARBONDALE		GRAY SHALE	3.0	95.5	
627.5	CARBONDALE		GRAY SHALE	11.1	98.5	FAULTY
616.4	CARBONDALE		SANDSTONE	20.4	109.6	

MAPID: 05785058000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103885

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.664138

DATE COLLECTED: 4 / 2 / 1963

SURFACE ELEVATION (FT.): 729.7 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT19

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.7	PLEISTOCENE		CLAY	13.5	0.0	
716.2	CARBONDALE		SHALE	6.5	13.5	FAULTY
709.7	CARBONDALE		GRAY SHALE	12.0	20.0	FAULTY
697.7	CARBONDALE		GRAY SHALE	9.0	32.0	WITH GRAVEL STREAKS
688.7	CARBONDALE		GRAY SHALE	51.0	41.0	WITH GRAVEL STREAKS; FAULTY
637.7			UNCLASSIFIED	8.0	92.0	DRILLER REPORTS SAND & GRAVEL

MAPID: 05785059000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101566

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.664147

DATE COLLECTED: 4 / 2 / 1963

SURFACE ELEVATION (FT.): 726.8 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT20

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.8	PLEISTOCENE		CLAY	13.0	0.0	
713.8	CARBONDALE		SHALE	6.0	13.0	FAULTY
707.8	CARBONDALE		GRAY SHALE	2.0	19.0	FAULTY
705.8	CARBONDALE		GRAY SHALE	3.5	21.0	& GRAVEL STREAKS
702.3	CARBONDALE		GRAY SHALE	10.3	24.5	& GRAVEL STREAKS
692.0	CARBONDALE		GRAY SANDSTONE	3.7	34.8	
688.3	CARBONDALE		GRAY SHALE	6.5	38.5	FAULTY
681.8	CARBONDALE		GRAY SHALE	10.5	45.0	
671.3	CARBONDALE		SHALE & SANDSTONE	19.5	55.5	
651.8	CARBONDALE		DARK SHALE	1.0	75.0	
650.8	CARBONDALE		SHALE & SANDSTONE	7.0	76.0	
643.8	CARBONDALE	TURNER MINE	DARK SHALE	0.5	83.0	
643.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	83.5	WITH WHITE TOP
642.3	CARBONDALE	SPRINGFIELD	COAL	3.5	84.5	FAIR
638.8	CARBONDALE		UNDERCLAY	2.0	88.0	

MAPID: 05785060000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120861

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659101

DATE COLLECTED: 4 / 22 / 1963

SURFACE ELEVATION (FT.): 724.9 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT7

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.9	PLEISTOCENE		CLAY	14.0	0.0	
710.9	CARBONDALE		SHALE	24.0	14.0	FAULTY
686.9	CARBONDALE		GRAY SHALE	9.0	38.0	FAULTY
677.9	CARBONDALE		SHALE	38.0	47.0	FAULTY
639.9	CARBONDALE		GRAY SHALE	9.5	85.0	& GRAVEL STREAKS
630.4	CARBONDALE		SANDSTONE	2.0	94.5	
628.4	CARBONDALE		SHALE & SANDSTONE	23.5	96.5	FAULTY

MAPID: 05785061000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119801

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63988

DATE COLLECTED: 4 / 2 / 1963

SURFACE ELEVATION (FT.): 720.7 LOGGED (FT.): 82.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT21

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.7	PLEISTOCENE		CLAY	19.0	0.0	
701.7	CARBONDALE		GRAY SHALE	11.0	19.0	FAULTY
690.7	CARBONDALE		GRAY SHALE	30.0	30.0	FAULTY & GRAVEL
660.7	CARBONDALE		GRAY SHALE	16.8	60.0	FAULTY & GRAVEL
643.9	CARBONDALE	SPRINGFIELD	COAL	3.2	76.8	GOOD
640.7	CARBONDALE		UNDERCLAY	2.0	80.0	

MAPID: 05785062000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109875

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653165

DATE COLLECTED: 4 / 3 / 1963

SURFACE ELEVATION (FT.): 726.7 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT22

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.7	PLEISTOCENE		CLAY	18.0	0.0	
708.7	CARBONDALE		SHALE	11.0	18.0	FAULTY
697.7	CARBONDALE		GRAY SHALE	71.0	29.0	FAULTY & GRAVEL STREAKS
626.7	CARBONDALE		SHALE & SANDSTONE	10.0	100.0	

MAPID: 05785063000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107205

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653129

DATE COLLECTED: 4 / 3 / 1963

SURFACE ELEVATION (FT.): 715.2 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT23

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.2	PLEISTOCENE		CLAY	14.5	0.0	
700.7	CARBONDALE		SHALE	4.0	14.5	FAULTY
696.7	CARBONDALE		GRAY SHALE	17.5	18.5	FAULTY
679.2	CARBONDALE		GRAY SHALE	36.0	36.0	FAULTY & GRAVEL
643.2	CARBONDALE		GRAY SHALE	19.0	72.0	& GRAVEL STREAKS
624.2	CARBONDALE		UNCLASSIFIED	19.0	91.0	DRILLER REPORTS GRAVEL & SAND

MAPID: 05785064000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106571

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660529

DATE COLLECTED: 4 / 3 / 1963

SURFACE ELEVATION (FT.): 713.8 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT24

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.8	PLEISTOCENE		CLAY	16.5	0.0	
697.3	CARBONDALE		GRAY SHALE	11.0	16.5	FAULTY WITH COAL STREAKS
686.3	CARBONDALE		SHALE & SANDSTONE	70.5	27.5	
615.8	CARBONDALE		UNCLASSIFIED	12.0	98.0	DRILLER REPORTS SAND & GRAVEL

MAPID: 05785065000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10161

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660436

DATE COLLECTED: 4 / 3 / 1963

SURFACE ELEVATION (FT.): 721.8 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT26

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.8	PLEISTOCENE		CLAY	15.0	0.0	
706.8	CARBONDALE		SHALE	8.0	15.0	FAULTY
698.8	CARBONDALE		GRAY SHALE	68.0	23.0	FAULTY & GRAVEL STREAKS
630.8	CARBONDALE		GRAY SHALE	6.0	91.0	
624.8	CARBONDALE		CALCAREOUS SHALE	13.0	97.0	

MAPID: 05785066000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101508

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669474

DATE COLLECTED: 4 / 17 / 1963

SURFACE ELEVATION (FT.): 734.0 LOGGED (FT.): 98.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT27

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.0	PLEISTOCENE		CLAY	18.0	0.0	
716.0	PLEISTOCENE		CLAY & SHALE	3.0	18.0	
713.0	PLEISTOCENE		GRAVEL	17.0	21.0	
696.0	CARBONDALE		GRAY SHALE	30.0	38.0	FAULTY
666.0	CARBONDALE		SHALE & SANDSTONE	6.8	68.0	
659.2	CARBONDALE		CALCAREOUS SHALE	15.7	74.8	
643.5	CARBONDALE	TURNER MINE	DARK SHALE	1.0	90.5	
642.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	91.5	
641.5	CARBONDALE	SPRINGFIELD	COAL	4.0	92.5	
637.5	CARBONDALE		UNDERCLAY	2.0	96.5	

MAPID: 05785067000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108575

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.663932

DATE COLLECTED: 4 / 17 / 1963

SURFACE ELEVATION (FT.): 723.8 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT29

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.8	PLEISTOCENE		CLAY	10.0	0.0	
713.8	CARBONDALE		SHALE	10.5	10.0	FAULTY
703.3	CARBONDALE		GRAY SHALE	39.5	20.5	& GRAVEL STREAKS
663.8	CARBONDALE		SHALE & SANDSTONE	60.0	60.0	FAULTY

MAPID: 05785068000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102707

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.663233

DATE COLLECTED: 4 / 17 / 1963

SURFACE ELEVATION (FT.): 728.5 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT30

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.5	PLEISTOCENE		CLAY	14.5	0.0	
714.0	CARBONDALE		SHALE	6.5	14.5	FAULTY
707.5	CARBONDALE		GRAY SHALE	20.5	21.0	FAULTY
687.0	CARBONDALE		GRAY SHALE	29.5	41.5	WITH SANDSTONE AND LIMESTONE STREAKS
657.5	CARBONDALE		UNKNOWN	6.0	71.0	GRAVEL
651.5	CARBONDALE	TURNER MINE	SLATY SHALE	1.0	77.0	
650.5	CARBONDALE	SPRINGFIELD	COAL	2.8	78.0	FAIR
647.7	CARBONDALE		UNDERCLAY	2.2	80.8	
645.5	CARBONDALE		SANDSTONE	7.0	83.0	

MAPID: 05785069000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121284

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648494

DATE COLLECTED: 4 / 18 / 1963

SURFACE ELEVATION (FT.): 733.5 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT31

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.5	PLEISTOCENE		CLAY	13.0	0.0	
720.5	PLEISTOCENE		CLAY & SHALE	22.0	13.0	
698.5	PLEISTOCENE		SAND & GRAVEL	6.0	35.0	
692.5	CARBONDALE		SHALE	5.0	41.0	FAULTY
687.5	CARBONDALE		GRAY SHALE	32.0	46.0	FAULTY
655.5	CARBONDALE		SHALE	2.0	78.0	GREEN
653.5	CARBONDALE		GRAY SHALE	2.0	80.0	
651.5	CARBONDALE	TURNER MINE	DARK SHALE	1.3	82.0	
650.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	83.3	
649.3	CARBONDALE	SPRINGFIELD	COAL	3.8	84.2	FAIR
645.5	CARBONDALE		UNDERCLAY	2.0	88.0	

MAPID: 05785070000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120889

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64529

DATE COLLECTED: 4 / 18 / 1963

SURFACE ELEVATION (FT.): 729.3 LOGGED (FT.): 92.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT32

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.3	PLEISTOCENE		CLAY	13.0	0.0	
716.3	CARBONDALE		SHALE	13.0	13.0	FAULTY
703.3	CARBONDALE		GRAY SHALE	8.5	26.0	FAULTY
694.8	CARBONDALE		SHALE & SANDSTONE	9.0	34.5	
685.8	CARBONDALE		SHALE	29.5	43.5	FAULTY
656.3	CARBONDALE		CALCAREOUS SHALE	3.5	73.0	FAULTY
652.7	CARBONDALE		GRAY SHALE	4.5	76.6	
648.3	CARBONDALE		DARK SHALE	2.0	81.0	
646.3	CARBONDALE		ROCK	1.0	83.0	
645.3	CARBONDALE	TURNER MINE	DARK SHALE	1.2	84.0	
644.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	85.2	
643.5	CARBONDALE	SPRINGFIELD	COAL	4.3	85.8	
639.1	CARBONDALE		UNDERCLAY	1.8	90.2	

MAPID: 05785071000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116178

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644619

DATE COLLECTED: 4 / 18 / 1963

SURFACE ELEVATION (FT.): 732.8 LOGGED (FT.): 94.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT33

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.8	PLEISTOCENE		CLAY	12.0	0.0	
720.8	CARBONDALE		SHALE	15.0	12.0	
705.8	CARBONDALE		GRAY SHALE	39.0	27.0	
666.8	CARBONDALE		SANDSTONE	2.0	66.0	
664.8	CARBONDALE		CALCAREOUS SHALE	14.0	68.0	
650.8	CARBONDALE		DARK SHALE	1.2	82.0	
649.6	CARBONDALE	ST. DAVID	LIMESTONE	1.0	83.2	
648.6	CARBONDALE	TURNER MINE	DARK SHALE	1.9	84.2	
646.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	86.1	
644.9	CARBONDALE	SPRINGFIELD	COAL	3.1	87.9	
641.8	CARBONDALE		UNDERCLAY	3.0	91.0	

MAPID: 05785072000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107307

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.666841

DATE COLLECTED: 4 / 20 / 1963

SURFACE ELEVATION (FT.): 731.0 LOGGED (FT.): 95.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT35

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.0	PLEISTOCENE		CLAY	13.0	0.0	
718.0	CARBONDALE		GRAY SHALE	19.0	13.0	FAULTY
699.0	CARBONDALE		SHALE & SANDSTONE	19.0	32.0	FAULTY
680.0	CARBONDALE		SHALE	5.0	51.0	GREEN
675.0	CARBONDALE		CALCAREOUS SHALE	22.0	56.0	
653.0	CARBONDALE		SHALE	7.3	78.0	DARK
645.7	CARBONDALE	ST. DAVID	LIMESTONE	0.8	85.3	CAPROCK
645.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	86.0	
643.6	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	87.4	
643.0	CARBONDALE	SPRINGFIELD	COAL	4.3	88.0	GOOD
638.7	CARBONDALE		UNDERCLAY	2.8	92.3	

MAPID: 05785073000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119977

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645372

DATE COLLECTED: 4 / 20 / 1963

SURFACE ELEVATION (FT.): 728.4 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT36

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.4	PLEISTOCENE		CLAY	14.0	0.0	
714.4	CARBONDALE		SHALE	12.0	14.0	FAULTY
702.4	CARBONDALE		GRAY SHALE	20.0	26.0	FAULTY & GRAVEL STREAKS
682.4	CARBONDALE		SHALE	8.0	46.0	GREEN AND FAUTY WITH GRAVEL STREAKS
674.4	CARBONDALE		GRAY SHALE	40.0	54.0	FAULTY & GRAVEL STREAKS
634.4	CARBONDALE		CALCAREOUS SHALE	16.0	94.0	FAULTY

MAPID: 05785074000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118898

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.641755

DATE COLLECTED: 4 / 24 / 1963

SURFACE ELEVATION (FT.): 730.2 LOGGED (FT.): 95.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT38

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.2	PLEISTOCENE		CLAY	13.0	0.0	
717.2	CARBONDALE		SHALE	17.0	13.0	FAULTY
700.2	CARBONDALE		GRAY SHALE	27.0	30.0	FAULTY
673.2	CARBONDALE		SHALE	7.0	57.0	FAULTY AND GREEN
666.2	CARBONDALE		LIMESTONE & SHALE	13.0	64.0	
653.2	CARBONDALE		CALCAREOUS SHALE	8.0	77.0	
645.2	CARBONDALE	ST. DAVID	LIMESTONE	1.1	85.0	CAPROCK
644.1	CARBONDALE	TURNER MINE	DARK SHALE	1.5	86.1	
642.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	87.6	
641.4	CARBONDALE	SPRINGFIELD	COAL	3.7	88.8	GOOD
637.7	CARBONDALE		UNDERCLAY	2.5	92.5	

MAPID: 05785075000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110862

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.666913

DATE COLLECTED: 4 / 24 / 1963

SURFACE ELEVATION (FT.): 725.7 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT39

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.7	PLEISTOCENE		CLAY	10.0	0.0	
715.7	CARBONDALE		SHALE	16.0	10.0	FAULTY
699.7	CARBONDALE		SHALE	24.0	26.0	FAULTY WITH GRAVEL STREAKS
675.7	CARBONDALE		SHALE	24.0	50.0	FAULTY WITH GRAVEL STREAKS
651.7	CARBONDALE		GRAY SHALE	20.0	74.0	FAULTY WITH GRAVEL STREAKS
631.7	CARBONDALE		GRAY SHALE	16.0	94.0	

MAPID: 05785076000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109714

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.666908

DATE COLLECTED: 4 / 24 / 1963

SURFACE ELEVATION (FT.): 726.9 LOGGED (FT.): 88.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT40

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.9	PLEISTOCENE		CLAY	12.0	0.0	
714.9	CARBONDALE		SHALE	12.5	12.0	FAULTY
702.4	CARBONDALE		GRAY SHALE	11.0	24.5	FAULTY
691.4	CARBONDALE		SHALE & SANDSTONE	18.5	35.5	FAULTY
672.9	CARBONDALE		GRAY SHALE	6.0	54.0	FAULTY & GRAVEL STREAKS
666.9	CARBONDALE		GRAY SHALE	12.3	60.0	FAULTY WITH GRAVEL STREAKS
654.6	CARBONDALE		UNKNOWN	10.2	72.3	DRILLER REPORTS SAND & GRAVEL
644.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.3	82.5	
644.1	CARBONDALE	SPRINGFIELD	COAL	3.2	82.8	GOOD
640.9	CARBONDALE		UNDERCLAY	2.0	86.0	

MAPID: 05785077000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107235

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652056

DATE COLLECTED: 4 / 25 / 1962

SURFACE ELEVATION (FT.): 734.0 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT41

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.0	PLEISTOCENE		CLAY	15.0	0.0	
719.0	PLEISTOCENE		CLAY & SHALE	7.0	15.0	FAULTY
712.0	PLEISTOCENE		CLAY	4.0	22.0	FAULTY
708.0	CARBONDALE		GRAY SHALE	12.5	26.0	FAULTY
695.5	CARBONDALE		GRAY SHALE	27.5	38.5	
668.0	CARBONDALE		SHALE & SANDSTONE	28.5	66.0	
639.5	CARBONDALE		DARK SHALE	1.0	94.5	
638.5	CARBONDALE		LIMESTONE AND SANDSTONE	2.5	95.5	
636.0	CARBONDALE		GRAY SHALE	1.5	98.0	
634.5	CARBONDALE		SANDSTONE/SHALE	10.5	99.5	

MAPID: 05785078000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10493

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667631

DATE COLLECTED: 4 / 25 / 1963

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 93.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT42

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.0	PLEISTOCENE		CLAY	17.5	0.0	
714.5	CARBONDALE		SHALE	12.5	17.5	FAULTY
702.0	CARBONDALE		GRAY SHALE	20.5	30.0	FAULTY
681.5	CARBONDALE		SHALE	5.5	50.5	GREEN AND FAULTY
676.0	CARBONDALE		SHALE	5.0	56.0	GREEN
671.0	CARBONDALE		SHALE & SANDSTONE	13.0	61.0	
658.0	CARBONDALE		CALCAREOUS SHALE	8.0	74.0	
650.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	82.0	CAPROCK
649.5	CARBONDALE	TURNER MINE	DARK SHALE	2.1	82.5	
647.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	84.6	
646.0	CARBONDALE	SPRINGFIELD	COAL	3.5	86.0	FAIR
642.5	CARBONDALE		UNDERCLAY	3.5	89.5	

MAPID: 05785079000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103274

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.668006

DATE COLLECTED: 4 / 25 / 1963

SURFACE ELEVATION (FT.): 733.5 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT43

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.5	PLEISTOCENE		CLAY	14.0	0.0	
719.5	CARBONDALE		SHALE	4.0	14.0	FAULTY
715.5	CARBONDALE		SHALE	8.5	18.0	FAULTY & GRAVEL
707.0	CARBONDALE		GRAY SHALE	17.3	26.5	FAULTY & GRAVEL
689.7	CARBONDALE		GRAY SHALE	16.7	43.8	FAULTY & GRAVEL
673.0	CARBONDALE		SANDSTONE	1.0	60.5	
672.0	CARBONDALE		SHALE & SANDSTONE	9.5	61.5	& GRAVEL
662.5	CARBONDALE		SANDSTONE	1.8	71.0	
660.7	CARBONDALE		SHALE & SANDSTONE	5.2	72.8	FAULTY
655.5	CARBONDALE		CALCAREOUS SHALE	3.5	78.0	
652.0	CARBONDALE		SANDSTONE	1.0	81.5	
651.0	CARBONDALE	TURNER MINE	DARK SHALE	0.7	82.5	
650.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	83.2	
649.2	CARBONDALE	SPRINGFIELD	COAL	4.7	84.3	GOOD
644.5	CARBONDALE		UNDERCLAY	1.0	89.0	

MAPID: 05785080000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104383

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.665953

DATE COLLECTED: 4 / 25 / 1963

SURFACE ELEVATION (FT.): 732.4 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT44

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.4	PLEISTOCENE		CLAY	16.0	0.0	
716.4	CARBONDALE		SHALE	16.0	16.0	& GRAVEL STREAKS
700.4	CARBONDALE		GRAY SHALE	48.0	32.0	AND GRAVEL STREAKS
652.4	CARBONDALE		SHALE & SANDSTONE	15.0	80.0	
637.4	CARBONDALE		CALCAREOUS SHALE	15.0	95.0	

MAPID: 05785081000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10622 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.665947 DATE COLLECTED: 4 / 25 / 1963

SURFACE ELEVATION (FT.): 730.3 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT45 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.3	PLEISTOCENE		CLAY	16.5	0.0	
713.8	CARBONDALE		SHALE	9.5	16.5	FAULTY
704.3	CARBONDALE		GRAY SHALE	5.0	26.0	FAULTY
699.3	CARBONDALE		SHALE	6.0	31.0	GREEN AND FAULTY
693.3	CARBONDALE		GRAY SHALE	18.0	37.0	FAULTY
675.3	CARBONDALE		GRAY SHALE	8.3	55.0	FAULTY
667.0	CARBONDALE		SHALE	2.7	63.3	FAULTY
664.3	CARBONDALE		GRAY SHALE	15.0	66.0	
649.3	CARBONDALE		DARK SHALE	8.0	81.0	
641.3	CARBONDALE	TURNER MINE	DARK SHALE	2.5	89.0	
638.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	91.5	
637.3	CARBONDALE	SPRINGFIELD	COAL	3.2	93.0	FAIR
634.1	CARBONDALE		UNDERCLAY	3.8	96.2	

MAPID: 05785082000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101539 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.666776 DATE COLLECTED: 4 / 25 / 1963

SURFACE ELEVATION (FT.): 734.3 LOGGED (FT.): 110.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT46 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.3	PLEISTOCENE		CLAY	15.0	0.0	
719.3	PLEISTOCENE		SILTY CLAY	3.5	15.0	FAULTY
715.8	PLEISTOCENE		GRAVEL	2.5	18.5	
713.3	CARBONDALE		SHALE	19.0	21.0	FAULTY
694.3	CARBONDALE		GRAY SHALE	9.0	40.0	FAULTY
685.3	CARBONDALE		GRAY SHALE	29.5	49.0	
655.8	CARBONDALE	TURNER MINE	DARK SHALE	0.2	78.5	
655.6	CARBONDALE	SPRINGFIELD	COAL	0.1	78.7	CROP
655.5	CARBONDALE		SHALE & SANDSTONE	31.3	78.8	

MAPID: 05785083000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102687

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.665948

DATE COLLECTED: 4 / 26 / 1963

SURFACE ELEVATION (FT.): 732.8 LOGGED (FT.): 109.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT47

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.8	PLEISTOCENE		CLAY	14.5	0.0	
718.3	PLEISTOCENE		SANDY CLAY	4.0	14.5	
714.3	PLEISTOCENE		CLAY & SHALE	2.0	18.5	
712.3	CARBONDALE		GRAY SHALE	10.5	20.5	FAULTY
701.8	CARBONDALE		SHALE & SANDSTONE	6.5	31.0	
695.3	CARBONDALE		SHALE & SANDSTONE	10.5	37.5	& GRAVEL
684.8	CARBONDALE		SHALE & SANDSTONE	30.0	48.0	& GRAVEL
654.8	CARBONDALE	SPRINGFIELD	COAL	0.1	78.0	CROP
654.7	CARBONDALE		GRAY SHALE	31.0	78.1	

MAPID: 05785084000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102024

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.665066

DATE COLLECTED: 4 / 26 / 1963

SURFACE ELEVATION (FT.): 732.4 LOGGED (FT.): 95.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT48

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.4	PLEISTOCENE		CLAY	13.5	0.0	
718.9	CARBONDALE		SHALE	10.5	13.5	FAULTY
708.4	CARBONDALE		SHALE & SANDSTONE	16.5	24.0	
691.9	CARBONDALE		CALCAREOUS SHALE	17.5	40.5	SANDY
674.4	CARBONDALE		SHALE & SANDSTONE	28.5	58.0	
645.9	CARBONDALE	SPRINGFIELD	COAL	0.1	86.5	CROP
645.8	CARBONDALE		UNDERCLAY	2.5	86.6	
643.3	CARBONDALE		SHALE & SANDSTONE	4.0	89.1	
639.3	CARBONDALE		ROCK	2.0	93.1	

MAPID: 05785085000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102679

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.664166

DATE COLLECTED: 4 / 26 / 1963

SURFACE ELEVATION (FT.): 729.7 LOGGED (FT.): 93.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT49

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.7	PLEISTOCENE		CLAY	12.0	0.0	
717.7	CARBONDALE		SHALE	10.0	12.0	
707.7	CARBONDALE		GRAY SHALE	42.0	22.0	
665.7	CARBONDALE		SHALE	6.0	64.0	GREEN
659.7	CARBONDALE		GRAY SHALE	4.0	70.0	
655.7	CARBONDALE		DARK SHALE	10.3	74.0	
645.4	CARBONDALE	TURNER MINE	DARK SHALE	0.8	84.3	
644.6	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	85.1	
643.7	CARBONDALE	SPRINGFIELD	COAL	3.7	86.0	GOOD
640.0	CARBONDALE		UNDERCLAY	3.3	89.7	

MAPID: 05785086000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101729

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662471

DATE COLLECTED: 4 / 21 / 1963

SURFACE ELEVATION (FT.): 713.1 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT5

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.1	PLEISTOCENE		CLAY	14.0	0.0	
699.1	CARBONDALE		SHALE	8.0	14.0	FAULTY
691.1	CARBONDALE		GRAY SHALE	12.0	22.0	FAULTY
679.1	CARBONDALE		SHALE & SANDSTONE	26.0	34.0	
653.1	CARBONDALE		GRAY SHALE	16.0	60.0	
637.1	CARBONDALE	SPRINGFIELD	COAL	0.3	76.0	
636.8	CARBONDALE		GRAY SHALE	8.8	76.3	
628.1	CARBONDALE		SHALE & SANDSTONE	15.0	85.0	

MAPID: 05785087000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119588

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644022

DATE COLLECTED: 4 / 26 / 1963

SURFACE ELEVATION (FT.): 726.7 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT50

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.7	PLEISTOCENE		CLAY	16.0	0.0	
710.7	CARBONDALE		SHALE	26.0	16.0	FAULTY
684.7	CARBONDALE		GRAY SHALE	57.0	42.0	FAULTY
627.7	CARBONDALE		LIMESTONE	2.5	99.0	
625.2	CARBONDALE		GRAY SHALE	8.5	101.5	

MAPID: 05785088000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.1109

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.664276

DATE COLLECTED: 4 / 26 / 1963

SURFACE ELEVATION (FT.): 723.4 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT51

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.4	PLEISTOCENE		CLAY	16.0	0.0	
707.4	CARBONDALE		SHALE	8.0	16.0	FAULTY
699.4	CARBONDALE		GRAY SHALE	96.0	24.0	FAULTY

MAPID: 05785089000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102739

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659473

DATE COLLECTED: 4 / 21 / 1963

SURFACE ELEVATION (FT.): 691.6 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT6

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
691.6	PLEISTOCENE		CLAY	15.0	0.0	
676.6	CARBONDALE		GRAY SHALE	67.0	15.0	FAULTY
609.6	CARBONDALE		SHALE & SANDSTONE	13.0	82.0	
596.6	CARBONDALE		SANDSTONE	5.0	95.0	

MAPID: 0578509000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110772

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658764

DATE COLLECTED: 3 / 22 / 1963

SURFACE ELEVATION (FT.): 712.6 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT8

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.6	PLEISTOCENE		CLAY	16.0	0.0	
696.6	CARBONDALE		SHALE	9.0	16.0	FAULTY
687.6	CARBONDALE		GRAY SHALE	20.0	25.0	FAULTY
667.6	CARBONDALE		GRAY SHALE	8.0	45.0	FAULTY & GRAVEL
659.6	CARBONDALE		GRAY SHALE	31.0	53.0	FAULTY & GRAVEL
628.6	CARBONDALE		SANDSTONE	4.0	84.0	FAULTY & GRAVEL
624.6	CARBONDALE		GRAY SHALE	4.5	88.0	
620.1	CARBONDALE		GRAY SHALE	7.5	92.5	FAULTY

MAPID: 05785091000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107621

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658789

DATE COLLECTED: 4 / 22 / 1963

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT9

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.0	PLEISTOCENE		CLAY	12.0	0.0	
668.0	CARBONDALE		GRAY SHALE	46.0	12.0	FAULTY
622.0	CARBONDALE		SANDSTONE	3.0	58.0	
619.0	CARBONDALE		SHALE & SANDSTONE	14.0	61.0	
605.0	CARBONDALE		SANDSTONE	5.0	75.0	
600.0	CARBONDALE		SHALE & SANDSTONE	20.0	80.0	

MAPID: 05785092000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.149741

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629747

DATE COLLECTED: 4 / 3 / 1963

SURFACE ELEVATION (FT.): 706.3 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.3	PLEISTOCENE		CLAY	14.0	0.0	
692.3	PLEISTOCENE		BOULDER	1.2	14.0	
691.1	CARBONDALE		SHALE	9.8	15.2	FAULTY
681.3	CARBONDALE		GRAY SHALE	48.0	25.0	FAULTY
633.3	CARBONDALE		SHALE & SANDSTONE	23.0	73.0	
610.3	CARBONDALE		SANDSTONE	12.0	96.0	
598.3	CARBONDALE		UNKNOWN	2.0	108.0	GRAVEL

MAPID: 05785179000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120735

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656387

DATE COLLECTED: 6 / 12 / 1975

SURFACE ELEVATION (FT.): 709.7 LOGGED (FT.): 62.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22944

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.7	PLEISTOCENE		CLAY & GRAVEL	20.0	0.0	YELLOW
689.7	PLEISTOCENE		CLAY & GRAVEL	14.0	20.0	GRAY
675.7	PLEISTOCENE		CLAY	3.5	34.0	AND BOULDERS
672.2	PLEISTOCENE		CLAY & GRAVEL	18.9	37.5	
653.3	CARBONDALE	SPRINGFIELD	COAL	1.7	56.4	SOFT; TOP ERODED
651.6	CARBONDALE	SPRINGFIELD	COAL	2.0	58.1	
649.6	CARBONDALE		UNDERCLAY	1.9	60.1	

MAPID: 0578518000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120738

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656713

DATE COLLECTED: 6 / 12 / 1975

SURFACE ELEVATION (FT.): 690.8 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22945

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.8	PLEISTOCENE		CLAY & GRAVEL	15.0	0.0	YELLOW
675.8	PLEISTOCENE		CLAY & GRAVEL	27.0	15.0	GRAY
648.8	PLEISTOCENE		CLAY	1.5	42.0	& COAL
647.3	PLEISTOCENE		CLAY	4.0	43.5	GRAY
643.3			LIMESTONE	2.5	47.5	

MAPID: 05785189000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116328

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660614

DATE COLLECTED: 12 / 7 / 1945

SURFACE ELEVATION (FT.): 718.0 LOGGED (FT.): 85.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 120

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.0	PLEISTOCENE		SOIL	1.0	0.0	
717.0	PLEISTOCENE		CLAY	20.3	1.0	YELLOW
696.7	PLEISTOCENE		SANDY CLAY	14.6	21.3	YELLOW
682.1	PLEISTOCENE		SANDY CLAY	25.7	35.9	
656.4	PLEISTOCENE		SAND & GRAVEL	17.3	61.6	GRAY
639.1	PLEISTOCENE		CLAY	6.4	78.9	

MAPID: 05785190000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113488

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662353

DATE COLLECTED: 12 / 4 / 1945

SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 85.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 124

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.0	PLEISTOCENE		SOIL	1.0	0.0	
721.0	PLEISTOCENE		CLAY	5.0	1.0	YELLOW
716.0	PLEISTOCENE		SANDY CLAY	15.6	6.0	YELLOW
700.4	PLEISTOCENE		SANDY CLAY	13.7	21.6	
686.7	PLEISTOCENE		SAND	20.4	35.3	GRAY
666.3	PLEISTOCENE		CLAY & GRAVEL	29.6	55.7	

MAPID: 05785191000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113955

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660607

DATE COLLECTED: 12 / 4 / 1945

SURFACE ELEVATION (FT.): 708.0 LOGGED (FT.): 61.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 126

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
708.0	PLEISTOCENE		SOIL	1.0	0.0	
707.0	PLEISTOCENE		CLAY	12.3	1.0	
694.7	PLEISTOCENE		SANDY CLAY	32.5	13.3	
662.2	PLEISTOCENE		CLAY	4.2	45.8	
658.0	PLEISTOCENE		SAND & GRAVEL	11.3	50.0	

MAPID: 05785192000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119429

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660656

DATE COLLECTED: 12 / 5 / 1945

SURFACE ELEVATION (FT.): 716.0 LOGGED (FT.): 75.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 128

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.0	PLEISTOCENE		SOIL	1.0	0.0	
715.0	PLEISTOCENE		CLAY	16.3	1.0	YELLOW
698.7	PLEISTOCENE		SANDY CLAY	10.5	17.3	YELLOW
688.2	PLEISTOCENE		SANDY CLAY	17.8	27.8	GRAY
670.4	PLEISTOCENE		CLAY & GRAVEL	20.3	45.6	
650.1	PLEISTOCENE		SAND & GRAVEL	9.4	65.9	

MAPID: 05785193000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119149

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658853

DATE COLLECTED: 12 / 6 / 1945

SURFACE ELEVATION (FT.): 711.0 LOGGED (FT.): 76.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 130

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.0	PLEISTOCENE		SOIL	1.0	0.0	
710.0	PLEISTOCENE		CLAY	20.6	1.0	YELLOW
689.4	PLEISTOCENE		SANDY CLAY	13.7	21.6	YELLOW
675.7	PLEISTOCENE		SANDY CLAY	20.0	35.3	GRAY
655.7	PLEISTOCENE		SAND & GRAVEL	11.4	55.3	GRAY
644.3	PLEISTOCENE		CLAY	9.6	66.7	

MAPID: 05785194000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116326

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658813

DATE COLLECTED: 12 / 6 / 1945

SURFACE ELEVATION (FT.): 711.0 LOGGED (FT.): 65.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 132

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.0	PLEISTOCENE		SOIL	1.0	0.0	
710.0	PLEISTOCENE		CLAY	5.0	1.0	
705.0	PLEISTOCENE		SANDY CLAY	21.6	6.0	
683.4	PLEISTOCENE		SANDY CLAY	28.0	27.6	
655.4	PLEISTOCENE		SAND & GRAVEL	9.7	55.6	

MAPID: 05785195000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116347

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662402

DATE COLLECTED: 12 / 7 / 1945

SURFACE ELEVATION (FT.): 716.0 LOGGED (FT.): 85.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 134

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.0	PLEISTOCENE		SOIL	1.0	0.0	
715.0	PLEISTOCENE		CLAY	5.0	1.0	YELLOW
710.0	PLEISTOCENE		SANDY CLAY	15.4	6.0	YELLOW
694.6	PLEISTOCENE		SAND & GRAVEL	24.3	21.4	GRAY
670.3	PLEISTOCENE		SAND & GRAVEL	22.1	45.7	
648.2	PLEISTOCENE		CLAY	17.5	67.8	

MAPID: 05785196000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119373

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66245

DATE COLLECTED: 12 / 7 / 1945

SURFACE ELEVATION (FT.): 711.0 LOGGED (FT.): 85.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 136

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.0	PLEISTOCENE		CLAY	6.0	0.0	
705.0	PLEISTOCENE		SANDY CLAY	10.8	6.0	
694.2	PLEISTOCENE		SAND	4.5	16.8	
689.7	PLEISTOCENE		SANDY CLAY	20.3	21.3	
669.4	PLEISTOCENE		SAND & GRAVEL	23.7	41.6	
645.7	PLEISTOCENE		CLAY & GRAVEL	20.0	65.3	

MAPID: 05785325000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12063

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652365

DATE COLLECTED:

SURFACE ELEVATION (FT.): 735.3 LOGGED (FT.): 49.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2028

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.3			UNKNOWN	49.0	0.0	NO COAL

MAPID: 05785381000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.114116

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656314

DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.0 LOGGED (FT.): 76.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2162

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.0			UNKNOWN	72.4	0.0	
644.6	CARBONDALE	SPRINGFIELD	COAL	3.9	72.4	

MAPID: 05785386000C VERSION: 1

PROJECT: NCRD00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 24 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120676

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655405

DATE COLLECTED:

SURFACE ELEVATION (FT.): 724.0 LOGGED (FT.): 50.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 69

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.0			UNKNOWN	50.9	0.0	NO COAL

MAPID: 05784938000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.111193

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651501

DATE COLLECTED: 1 / 25 / 1946

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 55.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 186

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.0	PLEISTOCENE		SOIL	1.0	0.0	
729.0	PLEISTOCENE		CLAY	20.3	1.0	YELLOW
708.7	PLEISTOCENE		SANDY CLAY	18.4	21.3	YELLOW
690.3	PLEISTOCENE		SANDY CLAY	15.6	39.7	GRAY

MAPID: 05784939000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108436

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640642

DATE COLLECTED: 9 / 28 / 1956

SURFACE ELEVATION (FT.): 758.8 LOGGED (FT.): 78.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 359

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
758.8	PLEISTOCENE		SOIL	1.0	0.0	
757.8	PLEISTOCENE		CLAY	12.5	1.0	YELLOW
745.3	PLEISTOCENE		CLAY	13.0	13.5	GRAY
732.3	MODESTO		GRAY SHALE	5.5	26.5	
726.8	MODESTO		BLACK SHALE	2.2	32.0	
724.6	CARBONDALE	DANVILLE	COAL	1.8	34.2	WITH SLATE
722.8	CARBONDALE		GRAY SHALE	12.0	36.0	
710.8	CARBONDALE		GRAY SANDSTONE	3.4	48.0	
707.4	CARBONDALE		GRAY SHALE	8.6	51.4	
698.8	CARBONDALE		LIMESTONE	3.6	60.0	
695.2	CARBONDALE		GRAY SHALE	9.4	63.6	
685.8	CARBONDALE	BRERETON	LIMESTONE	1.0	73.0	
684.8	CARBONDALE	HERRIN	COAL/CLAYSTONE	4.1	74.0	WHITE TOP
680.7	CARBONDALE		UNDERCLAY	0.5	78.1	

MAPID: 05784948000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10175 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644061 DATE COLLECTED: 7 / 17 / 1975

SURFACE ELEVATION (FT.): 752.3 LOGGED (FT.): 141.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22991 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.3	PLEISTOCENE		CLAY & GRAVEL	30.0	0.0	YELLOW
722.3	PLEISTOCENE		CLAY & GRAVEL	14.7	30.0	GRAY
707.6	CARBONDALE		SANDSTONE	3.8	44.7	
703.8	CARBONDALE		GRAY SHALE	21.5	48.5	
682.3	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.8	70.0	WHITE TOP
681.5	CARBONDALE	HERRIN	COAL	1.2	70.8	
680.3	CARBONDALE	HERRIN	BLUE BAND	0.2	72.0	
680.1	CARBONDALE	HERRIN	COAL	1.8	72.2	
678.3	CARBONDALE		UNDERCLAY	2.0	74.0	
676.3	CARBONDALE		LIMESTONE	4.5	76.0	
671.8	CARBONDALE		SANDSTONE	28.5	80.5	
643.3	CARBONDALE		LIMESTONE	0.5	109.0	
642.8	CARBONDALE		DARK SHALE	18.9	109.5	
623.9	CARBONDALE		LIMESTONE	0.5	128.4	
623.4	CARBONDALE		DARK SHALE	2.1	128.9	
621.3	CARBONDALE		LIMESTONE	1.9	131.0	
619.4	CARBONDALE		DARK SHALE	1.3	132.9	
618.1	CARBONDALE		BLACK SHALE	1.1	134.2	
617.0	CARBONDALE	SPRINGFIELD	COAL	3.7	135.3	
613.3	CARBONDALE		UNDERCLAY	2.0	139.0	

MAPID: 05784959000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101745 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654296 DATE COLLECTED: 6 / 2 / 1975

SURFACE ELEVATION (FT.): 701.1 LOGGED (FT.): 111.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23165 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.1	PLEISTOCENE		SOIL	1.0	0.0	
700.1	PLEISTOCENE		CLAY	16.0	1.0	YELLOW
684.1	PLEISTOCENE		CLAY	60.0	17.0	GRAY
624.1	CARBONDALE		GRAY SHALE	3.0	77.0	
621.1	CARBONDALE		LIMESTONE	0.4	80.0	
620.7	CARBONDALE		BLACK SHALE	1.6	80.4	
619.1	CARBONDALE		LIMESTONE	1.8	82.0	
617.3	CARBONDALE		GRAY SHALE	27.2	83.8	

MAPID: 05784963000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101776 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642381 DATE COLLECTED:

SURFACE ELEVATION (FT.): 754.0 LOGGED (FT.): 147.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23255 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
754.0	PLEISTOCENE		CLAY	32.0	0.0	
722.0	MODESTO		GRAY SHALE	10.0	32.0	
712.0	MODESTO		DARK SHALE	0.6	42.0	
711.4	CARBONDALE	DANVILLE	COAL	1.1	42.6	
710.3	CARBONDALE		GRAY SHALE	26.9	43.7	
683.4	CARBONDALE	BRERETON	LIMESTONE	4.1	70.6	
679.3	CARBONDALE		CLAYSTONE	0.5	74.7	WHITE TOP
678.8	CARBONDALE	HERRIN	COAL	4.1	75.2	
674.7	CARBONDALE		UNDERCLAY	1.6	79.3	
673.1	CARBONDALE		SHALE & SANDSTONE	37.7	80.9	
635.4	CARBONDALE		DARK SHALE	19.4	118.6	
616.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	138.0	
615.5	CARBONDALE	TURNER MINE	DARK SHALE	1.6	138.5	
613.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	140.1	
612.6	CARBONDALE	SPRINGFIELD	COAL	3.8	141.4	
608.8	CARBONDALE		UNDERCLAY	1.8	145.2	

MAPID: 05784969000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106239 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648345 DATE COLLECTED: 7 / 15 / 1975

SURFACE ELEVATION (FT.): 731.7 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23251 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
731.7	PLEISTOCENE		CLAY	19.7	0.0
712.0	CARBONDALE		GRAY SHALE	2.9	19.7
709.1	CARBONDALE		DARK SHALE	5.4	22.6
703.7	CARBONDALE	HERRIN	COAL	3.6	28.0
700.1	CARBONDALE		UNDERCLAY	1.6	31.6
698.5	CARBONDALE		SHALE & SANDSTONE	33.5	33.2
665.0	CARBONDALE		LIMESTONE	0.4	66.7
664.6	CARBONDALE		GRAY SHALE	20.9	67.1
643.7	CARBONDALE		DARK SHALE	2.7	88.0
641.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	90.7
640.6	CARBONDALE	TURNER MINE	DARK SHALE	1.6	91.1
639.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	92.7
637.7	CARBONDALE	SPRINGFIELD	COAL	3.8	94.0
633.9	CARBONDALE		UNDERCLAY	2.2	97.8

MAPID: 05785006000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110106 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65147 DATE COLLECTED: 11 / 29 / 1945

SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 61.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 116 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
735.0	PLEISTOCENE		SOIL	1.0	0.0
734.0	PLEISTOCENE		CLAY	20.3	1.0
713.7	PLEISTOCENE		BOULDER	1.5	21.3
712.2	PLEISTOCENE		CLAY	8.5	22.8
703.7	PLEISTOCENE		CLAY	2.5	31.3 & COAL
701.2	PLEISTOCENE		SANDY CLAY	27.5	33.8

MAPID: 05785007000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110075

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653278

DATE COLLECTED: 11 / 30 / 1945

SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 61.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 118

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.0	PLEISTOCENE		SOIL	1.0	0.0	
734.0	PLEISTOCENE		SANDY CLAY	22.3	1.0	YELLOW
711.7	PLEISTOCENE		SANDY CLAY	22.3	23.3	GRAY
689.4	PLEISTOCENE		CLAY & GRAVEL	15.7	45.6	

MAPID: 05785008000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112426

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653293

DATE COLLECTED: 12 / 5 / 1945

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 34.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 122

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.0	PLEISTOCENE		CLAY	1.0	0.0	
729.0	PLEISTOCENE		SAND/CLAY	7.8	1.0	
721.2	PLEISTOCENE		CLAY, SAND & GRAVEL	13.2	8.8	
708.0	PLEISTOCENE		CLAY	5.0	22.0	
703.0			SANDSTONE	2.0	27.0	
701.0			SHALE	5.0	29.0	

MAPID: 05785009000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110108

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647906

DATE COLLECTED: 12 / 14 / 1945

SURFACE ELEVATION (FT.): 744.0 LOGGED (FT.): 52.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 142

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.0	PLEISTOCENE		SOIL	1.0	0.0	
743.0	PLEISTOCENE		CLAY	5.0	1.0	YELLOW
738.0	PLEISTOCENE		CLAY	29.0	6.0	GRAY
709.0	PLEISTOCENE		CLAY	7.7	35.0	GREEN
701.3	CARBONDALE		GRAY SHALE	4.2	42.7	
697.1	CARBONDALE	ANNA	BLACK SHALE	0.4	46.9	
696.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.0	47.3	
694.7	CARBONDALE	HERRIN	BLUE BAND	0.2	49.3	
694.5	CARBONDALE	HERRIN	COAL	1.9	49.5	
692.6	CARBONDALE		UNDERCLAY	0.9	51.4	

MAPID: 05785010000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110168

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64612

DATE COLLECTED: 12 / 17 / 1945

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 53.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 144

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0	PLEISTOCENE		SOIL	1.0	0.0	
746.0	PLEISTOCENE		CLAY	7.0	1.0	YELLOW
739.0	PLEISTOCENE		CLAY	25.3	8.0	GRAY
713.7	CARBONDALE		GRAY SHALE	4.2	33.3	SOFT
709.5	CARBONDALE		GRAY SHALE	5.3	37.5	HARD
704.2	CARBONDALE		LIMESTONE	3.8	42.8	
700.4	CARBONDALE		GRAY SHALE	2.4	46.6	
698.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.6	49.0	
695.4	CARBONDALE		UNDERCLAY	1.4	51.6	

MAPID: 05785011000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11021 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644302 DATE COLLECTED: 11 / 8 / 1945

SURFACE ELEVATION (FT.): 750.0 LOGGED (FT.): 57.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 146 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.0	PLEISTOCENE		SOIL	1.0	0.0	
749.0	PLEISTOCENE		CLAY	6.0	1.0	YELLOW
743.0	PLEISTOCENE		CLAY	18.3	7.0	GRAY
724.7	CARBONDALE		GRAY SHALE	13.7	25.3	
711.0	CARBONDALE		GRAY SANDSTONE	1.3	39.0	
709.7	CARBONDALE		SHALE & SANDSTONE	3.1	40.3	
706.6	CARBONDALE		GRAY SHALE	8.9	43.4	
697.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	52.3	
696.2	CARBONDALE	HERRIN	BLUE BAND	0.2	53.8	
696.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.4	54.0	
693.6	CARBONDALE		UNDERCLAY	0.6	56.4	

MAPID: 05785012000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110294 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640693 DATE COLLECTED: 12 / 21 / 1945

SURFACE ELEVATION (FT.): 756.0 LOGGED (FT.): 73.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 148 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
756.0	PLEISTOCENE		SOIL	1.0	0.0	
755.0	PLEISTOCENE		CLAY	21.3	1.0	
733.7	MODESTO		GRAY SHALE	8.0	22.3	
725.7	CARBONDALE	DANVILLE	COAL W/ BLACK SHALE	1.5	30.3	
724.2	CARBONDALE		GRAY SHALE	13.8	31.8	
710.4	CARBONDALE		GRAY SANDSTONE	10.3	45.6	
700.1	CARBONDALE		DARK SHALE	10.1	55.9	
690.0	CARBONDALE	BRERETON	LIMESTONE	2.0	66.0	
688.0	CARBONDALE	ANNA	BLACK SHALE	1.0	68.0	
687.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.0	69.0	
685.0	CARBONDALE	HERRIN	BLUE BAND	0.2	71.0	
684.8	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	71.2	
683.3	CARBONDALE		UNDERCLAY	1.0	72.7	

MAPID: 05785013000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110091

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650576

DATE COLLECTED: 1 / 24 / 1946

SURFACE ELEVATION (FT.): 740.0 LOGGED (FT.): 42.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 184

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.0	PLEISTOCENE		SOIL	1.0	0.0	
739.0	PLEISTOCENE		CLAY	20.3	1.0	
718.7	CARBONDALE		SANDSTONE	6.5	21.3	
712.2	CARBONDALE		GRAY SHALE	9.7	27.8	
702.5	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.5	37.5	
700.0	CARBONDALE	HERRIN	BLUE BAND	0.2	40.0	
699.8	CARBONDALE	HERRIN	COAL	1.4	40.2	
698.4	CARBONDALE		UNDERCLAY	1.2	41.6	

MAPID: 05785014000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107822

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64424

DATE COLLECTED: 9 / 29 / 1956

SURFACE ELEVATION (FT.): 752.7 LOGGED (FT.): 64.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 361

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.7	PLEISTOCENE		SOIL	1.0	0.0	
751.7	PLEISTOCENE		CLAY	9.0	1.0	
742.7	PLEISTOCENE		WOOD	2.4	10.0	
740.3	PLEISTOCENE		CLAY, SAND & GRAVEL	14.8	12.4	
725.5	CARBONDALE		GRAY SHALE	13.8	27.2	
711.7	CARBONDALE		GRAY SANDSTONE	2.9	41.0	
708.8	CARBONDALE		DARK SHALE	15.8	43.9	
693.0	CARBONDALE	HERRIN	COAL/CLAYSTONE	2.4	59.7	WHITE TOP
690.6	CARBONDALE	HERRIN	BLUE BAND	0.2	62.1	
690.4	CARBONDALE		CLAYSTONE	2.0	62.3	WHITE TOP
688.4	CARBONDALE		UNDERCLAY	0.5	64.3	

MAPID: 05785015000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104269

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644167

DATE COLLECTED: 10 / 1 / 1956

SURFACE ELEVATION (FT.): 754.0 LOGGED (FT.): 69.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 362

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
754.0	PLEISTOCENE		SOIL	1.0	0.0	
753.0	PLEISTOCENE		SANDY CLAY	21.3	1.0	YELLOW
731.7	PLEISTOCENE		SANDY CLAY	13.4	22.3	GRAY
718.3	CARBONDALE		CLAY & GRAVEL	7.3	35.7	
711.0	CARBONDALE		GRAY SHALE	8.2	43.0	
702.8	CARBONDALE		LIMESTONE	0.6	51.2	
702.2	CARBONDALE		DARK SHALE	10.5	51.8	
691.7	CARBONDALE	ANNA	BLACK SHALE	1.7	62.3	
690.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	4.3	64.0	
685.7	CARBONDALE		UNDERCLAY	1.2	68.3	

MAPID: 05785016000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10645

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647571

DATE COLLECTED: 10 / 2 / 1956

SURFACE ELEVATION (FT.): 738.7 LOGGED (FT.): 36.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 363

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.7	PLEISTOCENE		CLAY	15.0	0.0	
723.7	PLEISTOCENE		SANDY CLAY	6.0	15.0	
717.7	CARBONDALE		GRAY SHALE	10.0	21.0	
707.7	CARBONDALE	ANNA	BLACK SHALE	1.1	31.0	
706.6	CARBONDALE	HERRIN	COAL/CLAYSTONE	2.0	32.1	WHITE TOP
704.6	CARBONDALE	HERRIN	BLUE BAND	0.2	34.1	
704.4	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.0	34.3	
702.4	CARBONDALE		UNDERCLAY	0.5	36.3	

MAPID: 05785017000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104219

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645977

DATE COLLECTED: 10 / 2 / 1956

SURFACE ELEVATION (FT.): 752.2 LOGGED (FT.): 59.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 364

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.2	PLEISTOCENE		SOIL	1.0	0.0	
751.2	PLEISTOCENE		SANDY CLAY	20.3	1.0	YELLOW
730.9	PLEISTOCENE		SANDY CLAY	12.7	21.3	GRAY
718.2	CARBONDALE		GRAY SHALE	17.0	34.0	
701.2	CARBONDALE	BRERETON	LIMESTONE	2.5	51.0	
698.7	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.2	53.5	WHITE TOP, SOFT
697.5	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.6	54.7	WHITE TOP
695.9	CARBONDALE	HERRIN	COAL	1.8	56.3	
694.1	CARBONDALE		UNDERCLAY	1.2	58.1	

MAPID: 05785018000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107698

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646111

DATE COLLECTED: 10 / 2 / 1956

SURFACE ELEVATION (FT.): 747.8 LOGGED (FT.): 49.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 365

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.8	PLEISTOCENE		SOIL	1.0	0.0	
746.8	PLEISTOCENE		SANDY CLAY	21.2	1.0	
725.6	PLEISTOCENE		CLAY	8.8	22.2	GRAY
716.8	CARBONDALE		GRAY SHALE	13.9	31.0	
702.9	CARBONDALE	HERRIN	COAL/CLAYSTONE	2.4	44.9	WHITE TOP
700.5	CARBONDALE		CLAYSTONE	2.0	47.3	WHITE TOP
698.5	CARBONDALE		UNDERCLAY	0.5	49.3	

MAPID: 05785019000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104189

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647894

DATE COLLECTED: 10 / 3 / 1956

SURFACE ELEVATION (FT.): 706.3 LOGGED (FT.): 45.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 366

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.3	PLEISTOCENE		SOIL	1.0	0.0	
705.3	PLEISTOCENE		SANDY CLAY	20.0	1.0	YELLOW
685.3	PLEISTOCENE		SANDY CLAY	17.0	21.0	GRAY
668.3	CARBONDALE		DARK SHALE	3.2	38.0	
665.1	CARBONDALE	HERRIN	COAL	4.0	41.2	AND SLATE
661.1	CARBONDALE		UNDERCLAY	0.5	45.2	

MAPID: 05785020000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107497

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649235

DATE COLLECTED: 10 / 3 / 1956

SURFACE ELEVATION (FT.): 738.0 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 367

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.0	PLEISTOCENE		SOIL	1.0	0.0	
737.0	PLEISTOCENE		SANDY CLAY	14.0	1.0	YELLOW
723.0	PLEISTOCENE		SANDY CLAY	21.0	15.0	GRAY
702.0	PLEISTOCENE		CLAY	9.0	36.0	GRAY

MAPID: 05785021000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104267

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642349

DATE COLLECTED: 10 / 4 / 1956

SURFACE ELEVATION (FT.): 755.5 LOGGED (FT.): 78.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 368

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
755.5	PLEISTOCENE		SOIL	1.0	0.0	
754.5	PLEISTOCENE		SANDY CLAY	21.4	1.0	
733.1	PLEISTOCENE		CLAY, SAND & GRAVEL	15.6	22.4	
717.5	MODESTO		BLACK SHALE	0.4	38.0	
717.1	CARBONDALE	DANVILLE	COAL	1.7	38.4	
715.4	CARBONDALE		UNDERCLAY	1.2	40.1	
714.2	CARBONDALE		GRAY SHALE	9.7	41.3	
704.5	CARBONDALE		SANDSTONE	14.4	51.0	
690.1	CARBONDALE		GRAY SHALE	5.1	65.4	
685.0	CARBONDALE	BRERETON	LIMESTONE	3.5	70.5	
681.5	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.2	74.0	WHITE TOP
680.3	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.1	75.2	
679.2	CARBONDALE	HERRIN	BLUE BAND	0.2	76.3	
679.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.7	76.5	
677.3	CARBONDALE		UNDERCLAY	0.5	78.2	

MAPID: 05785022000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104299 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640599 DATE COLLECTED: 10 / 5 / 1956

SURFACE ELEVATION (FT.): 756.2 LOGGED (FT.): 80.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 369 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
756.2	PLEISTOCENE		SOIL	1.0	0.0	
755.2	PLEISTOCENE		SANDY CLAY	21.6	1.0	
733.6	PLEISTOCENE		SANDY CLAY	17.9	22.6	
715.7	MODESTO		BLACK SHALE	0.5	40.5	
715.2	CARBONDALE	DANVILLE	COAL W/ BLACK SHALE	1.8	41.0	
713.4	CARBONDALE		UNDERCLAY	1.2	42.8	
712.2	CARBONDALE		GRAY SHALE	7.0	44.0	
705.2	CARBONDALE		SANDSTONE	11.3	51.0	
693.9	CARBONDALE		SANDY SHALE	10.5	62.3	
683.4	CARBONDALE	BRERETON	LIMESTONE	3.0	72.8	
680.4	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.2	75.8	WHITE TOP
679.2	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	3.0	77.0	
676.2	CARBONDALE		UNDERCLAY	0.5	80.0	

MAPID: 05785023000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104055 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649531 DATE COLLECTED: 9 / 6 / 1956

SURFACE ELEVATION (FT.): 742.5 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 370 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.5	PLEISTOCENE		SOIL	1.0	0.0	
741.5	PLEISTOCENE		CLAY	16.0	1.0	
725.5	PLEISTOCENE		CLAY, SAND & GRAVEL	15.0	17.0	
710.5	PLEISTOCENE		BOULDER	1.3	32.0	
709.2	PLEISTOCENE		SANDY CLAY	7.7	33.3	
701.5	PLEISTOCENE		SAND & GRAVEL	9.0	41.0	

MAPID: 05785024000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107885

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651327

DATE COLLECTED: 10 / 8 / 1956

SURFACE ELEVATION (FT.): 741.2 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 371

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.2	PLEISTOCENE		SOIL	1.0	0.0	
740.2	PLEISTOCENE		SANDY CLAY	20.4	1.0	
719.8	PLEISTOCENE		SANDY CLAY	23.6	21.4	
696.2	PLEISTOCENE		SAND & GRAVEL	10.0	45.0	

MAPID: 05785025000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105681

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654864

DATE COLLECTED: 10 / 9 / 1956

SURFACE ELEVATION (FT.): 727.2 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 372

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.2	PLEISTOCENE		SOIL	1.0	0.0	
726.2	PLEISTOCENE		CLAY	23.7	1.0	
702.5	PLEISTOCENE		SANDY CLAY	26.3	24.7	
676.2	PLEISTOCENE		SAND & GRAVEL	4.0	51.0	

MAPID: 05785026000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106657

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6534

DATE COLLECTED: 10 / 9 / 1956

SURFACE ELEVATION (FT.): 738.2 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 373

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.2	PLEISTOCENE		SOIL	1.0	0.0	
737.2	PLEISTOCENE		CLAY	25.5	1.0	YELLOW
711.7	PLEISTOCENE		SANDY CLAY	14.5	26.5	YELLOW
697.2	PLEISTOCENE		SANDY CLAY	14.0	41.0	GRAY

MAPID: 05785027000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105139

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652936

DATE COLLECTED: 10 / 9 / 1956

SURFACE ELEVATION (FT.): 725.1 LOGGED (FT.): 91.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 374

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.1	PLEISTOCENE		SOIL	1.0	0.0	
724.1	PLEISTOCENE		SANDY CLAY	30.7	1.0	YELLOW
693.4	PLEISTOCENE		SANDY CLAY	19.3	31.7	GRAY
674.1	PLEISTOCENE		CLAY	34.0	51.0	GRAY
640.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	85.0	SOFT
638.7	CARBONDALE	SPRINGFIELD	COAL	3.8	86.4	
634.9	CARBONDALE		UNDERCLAY	1.2	90.2	

MAPID: 05785028000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107841

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655035

DATE COLLECTED: 10 / 8 / 1956

SURFACE ELEVATION (FT.): 733.8 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 375

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.8	PLEISTOCENE		SOIL	1.0	0.0	
732.8	PLEISTOCENE		CLAY	20.0	1.0	YELLOW
712.8	PLEISTOCENE		SANDY CLAY	18.7	21.0	YELLOW
694.1	PLEISTOCENE		SANDY CLAY	10.3	39.7	YELLOW
683.8	PLEISTOCENE		SANDY CLAY	5.0	50.0	GRAY

MAPID: 05785029000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103526

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65157

DATE COLLECTED: 10 / 6 / 1956

SURFACE ELEVATION (FT.): 734.9 LOGGED (FT.): 40.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 376

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.9	PLEISTOCENE		SOIL	1.0	0.0	
733.9	PLEISTOCENE		SANDY CLAY	20.3	1.0	YELLOW
713.6	PLEISTOCENE		SANDY CLAY	13.5	21.3	GRAY
700.1	PLEISTOCENE		SAND & GRAVEL	2.0	34.8	
698.1	CARBONDALE	HERRIN	COAL	1.7	36.8	TOP ERODED;BROKEN
696.4	CARBONDALE		UNDERCLAY	1.8	38.5	

MAPID: 05785030000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101812

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651526

DATE COLLECTED: 10 / 6 / 1956

SURFACE ELEVATION (FT.): 739.3 LOGGED (FT.): 47.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 377

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.3	PLEISTOCENE		SOIL	1.0	0.0	
738.3	PLEISTOCENE		CLAY	14.0	1.0	YELLOW
724.3	PLEISTOCENE		SANDY CLAY	6.7	15.0	YELLOW
717.6	PLEISTOCENE		SANDY CLAY	13.3	21.7	GRAY
704.3	PLEISTOCENE		CLAY & GRAVEL	8.8	35.0	GRAY
695.5	CARBONDALE	HERRIN	COAL	2.0	43.8	TOP ERODED
693.5	CARBONDALE		UNDERCLAY	1.9	45.8	

MAPID: 05785031000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101658

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649289

DATE COLLECTED: 10 / 6 / 1956

SURFACE ELEVATION (FT.): 739.4 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 378

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.4	PLEISTOCENE		CLAY	15.0	0.0	
724.4	PLEISTOCENE		SANDY CLAY	12.8	15.0	
711.6	CARBONDALE		GRAY SHALE	2.2	27.8	
709.4	CARBONDALE	BRERETON	LIMESTONE	4.8	30.0	
704.6	CARBONDALE	HERRIN	COAL	2.2	34.8	
702.4	CARBONDALE	HERRIN	BLUE BAND	0.2	37.0	
702.2	CARBONDALE	HERRIN	COAL	1.6	37.2	
700.6	CARBONDALE		UNDERCLAY	1.2	38.8	

MAPID: 05785032000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101686

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647935

DATE COLLECTED: 10 / 8 / 1956

SURFACE ELEVATION (FT.): 746.9 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 379

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.9	PLEISTOCENE		SOIL	1.0	0.0	
745.9	PLEISTOCENE		SANDY CLAY	20.3	1.0	YELLOW
725.6	PLEISTOCENE		SANDY CLAY	25.7	21.3	GRAY
699.9	PLEISTOCENE		SAND & GRAVEL	8.0	47.0	GRAY

MAPID: 05785043000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110149

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649737

DATE COLLECTED:

SURFACE ELEVATION (FT.): 740.0 LOGGED (FT.): 43.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 163

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.0			UNKNOWN	40.0	0.0	
700.0	CARBONDALE	HERRIN	COAL	3.0	40.0	

MAPID: 05785044000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110226

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642476

DATE COLLECTED:

SURFACE ELEVATION (FT.): 754.0 LOGGED (FT.): 69.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 181

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
754.0			UNKNOWN	66.0	0.0	
688.0	CARBONDALE	HERRIN	COAL	3.4	66.0	

MAPID: 05785098000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116178

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644619

DATE COLLECTED:

SURFACE ELEVATION (FT.): 733.0 LOGGED (FT.): 92.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT33

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.0			UNKNOWN	88.2	0.0	
644.8	CARBONDALE	SPRINGFIELD	COAL	4.5	88.2	

MAPID: 05785099000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107307

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.666841

DATE COLLECTED:

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 91.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT35

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.0			UNKNOWN	87.8	0.0	
637.2	CARBONDALE	SPRINGFIELD	COAL	3.3	87.8	

MAPID: 0578510000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109974 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652503 DATE COLLECTED:

SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT42 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.0			UNKNOWN	60.0	0.0	NO COAL

MAPID: 05785101000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107205 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653129 DATE COLLECTED:

SURFACE ELEVATION (FT.): 731.0 LOGGED (FT.): 106.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT23 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.0			UNKNOWN	33.0	0.0	
697.9	CARBONDALE	HERRIN	COAL	5.2	33.1	
692.8	CARBONDALE		UNKNOWN	63.4	38.2	
629.4	CARBONDALE	SPRINGFIELD	COAL	5.0	101.6	

MAPID: 05785102000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119801 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63988 DATE COLLECTED:

SURFACE ELEVATION (FT.): 736.0 LOGGED (FT.): 108.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT21 WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.0			UNKNOWN	38.6	0.0	
697.4	CARBONDALE	DANVILLE	COAL	1.9	38.6	
695.5	CARBONDALE		UNKNOWN	15.1	40.5	
680.4	CARBONDALE	HERRIN	COAL	4.5	55.6	
675.9	CARBONDALE		UNKNOWN	43.8	60.1	
632.1	CARBONDALE	SPRINGFIELD	COAL	4.8	103.9	

MAPID: 05785103000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102054

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.668139

DATE COLLECTED:

SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 36.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT41

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.0			UNKNOWN	36.4	0.0	
700.6	CARBONDALE	HERRIN	COAL	0.2	36.4	

MAPID: 05785104000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110862

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.666913

DATE COLLECTED:

SURFACE ELEVATION (FT.): 780.0 LOGGED (FT.): 60.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT39

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
780.0			UNKNOWN	56.1	0.0	
723.9	CARBONDALE	SPRINGFIELD	COAL	4.7	56.1	

MAPID: 05785105000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109714

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.666908

DATE COLLECTED:

SURFACE ELEVATION (FT.): 740.5 LOGGED (FT.): 42.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT40

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.5			UNKNOWN	39.0	0.0	
701.5	CARBONDALE	HERRIN	COAL	3.2	39.0	

MAPID: 05785106000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109487 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654762 DATE COLLECTED:

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 89.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT34 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.0			UNKNOWN	87.1	0.0	
637.9	CARBONDALE	SPRINGFIELD	COAL	2.7	87.1	

MAPID: 05785107000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109928 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651311 DATE COLLECTED:

SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 33.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT20C WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.0			UNKNOWN	29.6	0.0	
705.4	CARBONDALE	HERRIN	COAL	3.9	29.6	

MAPID: 05785108000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110518 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655057 DATE COLLECTED: 12 / 1 / 1945

SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 85.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2177 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.0	PLEISTOCENE		SOIL	1.0	0.0	
721.0	PLEISTOCENE		CLAY	20.3	1.0	
700.7	PLEISTOCENE		SANDY CLAY	24.3	21.3	
676.4	PLEISTOCENE		CLAY	14.7	45.6	GRAY
661.7	PLEISTOCENE		CLAY	22.5	60.3	GREEN
639.2	CARBONDALE	SPRINGFIELD	COAL	1.5	82.8	VERY SOFT; TOP ERODED
637.7	CARBONDALE		UNDERCLAY	1.0	84.3	

MAPID: 05785130000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113541

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651502

DATE COLLECTED: 11 / 21 / 1945

SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 35.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 151

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.0	PLEISTOCENE		SOIL	1.6	0.0	
733.4	PLEISTOCENE		SANDY CLAY	23.0	1.6	
710.4			UNKNOWN	3.4	24.6	
707.0	CARBONDALE	ANNA	BLACK SHALE	1.4	28.0	
705.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.0	29.4	
703.6	CARBONDALE	HERRIN	BLUE BAND	0.6	31.4	
703.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.0	32.0	
701.0	CARBONDALE		UNDERCLAY	1.6	34.0	

MAPID: 05785139000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116026

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64787

DATE COLLECTED: 11 / 19 / 1945

SURFACE ELEVATION (FT.): 746.6 LOGGED (FT.): 62.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 106

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.6	PLEISTOCENE		SOIL	15.0	0.0	
731.6	PLEISTOCENE		CLAY	7.7	15.0	
723.9	PLEISTOCENE		CLAY	3.3	22.7	& BOULDERS
720.6	PLEISTOCENE		CLAY	4.0	26.0	
716.6	CARBONDALE		GRAY SHALE	9.0	30.0	
707.6	CARBONDALE		DARK SHALE	3.3	39.0	
704.3	CARBONDALE	BRERETON	LIMESTONE	3.5	42.3	
700.8	CARBONDALE	HERRIN	COAL	13.6	45.8	
687.2	CARBONDALE		UNDERCLAY	2.6	59.4	

MAPID: 0578514000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116046

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649666

DATE COLLECTED: 11 / 20 / 1945

SURFACE ELEVATION (FT.): 744.0 LOGGED (FT.): 43.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 108

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.0	PLEISTOCENE		SOIL	20.0	0.0	
724.0	PLEISTOCENE		CLAY	6.0	20.0	YELLOW
718.0	PLEISTOCENE		CLAY	4.0	26.0	GRAY
714.0	CARBONDALE		DARK SHALE	7.4	30.0	
706.6	CARBONDALE	HERRIN	COAL	1.4	37.4	
705.2	CARBONDALE	HERRIN	CLAYSTONE	0.4	38.8	WHITE TOP
704.8	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.6	39.2	WHITE TOP
704.2	CARBONDALE	HERRIN	COAL	1.6	39.8	
702.6	CARBONDALE		UNDERCLAY	2.3	41.4	

MAPID: 05785141000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116033

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651467

DATE COLLECTED: 11 / 21 / 1945

SURFACE ELEVATION (FT.): 739.0 LOGGED (FT.): 34.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 110

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.0	PLEISTOCENE		SOIL	20.0	0.0	
719.0	PLEISTOCENE		CLAY	4.0	20.0	GRAY
715.0	PLEISTOCENE		CLAY	5.0	24.0	DARK
710.0	CARBONDALE	HERRIN	COAL	4.0	29.0	TOP ERODED
706.0	CARBONDALE		UNDERCLAY	1.3	33.0	

MAPID: 05785142000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.115193

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653196

DATE COLLECTED: 11 / 23 / 1945

SURFACE ELEVATION (FT.): 727.0 LOGGED (FT.): 25.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 112

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.0	PLEISTOCENE		SOIL	16.0	0.0	
711.0	CARBONDALE		GRAY SHALE	2.6	16.0	
708.4	CARBONDALE	ANNA	DARK SHALE	0.9	18.6	
707.5	CARBONDALE	HERRIN	COAL	4.0	19.5	GOOD
703.5	CARBONDALE		UNDERCLAY	1.5	23.5	

MAPID: 05785143000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.114702

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64884

DATE COLLECTED: 12 / 11 / 1945

SURFACE ELEVATION (FT.): 739.0 LOGGED (FT.): 42.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 138

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.0	PLEISTOCENE		SOIL	1.0	0.0	
738.0	PLEISTOCENE		CLAY	5.0	1.0	
733.0	PLEISTOCENE		CLAY & GRAVEL	19.3	6.0	
713.7	CARBONDALE		GRAY SHALE	10.0	25.3	
703.7	CARBONDALE	ANNA	BLACK SHALE	1.4	35.3	
702.3	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.5	36.7	
699.8	CARBONDALE	HERRIN	BLUE BAND	0.2	39.2	
699.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.0	39.4	
697.6	CARBONDALE		UNDERCLAY	0.6	41.4	

MAPID: 05785144000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.114772

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650632

DATE COLLECTED: 12 / 13 / 1945

SURFACE ELEVATION (FT.): 740.0 LOGGED (FT.): 34.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 140

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.0	PLEISTOCENE		SOIL	1.0	0.0	
739.0	PLEISTOCENE		CLAY	6.0	1.0	YELLOW
733.0	PLEISTOCENE		CLAY	19.0	7.0	GRAY
714.0	PLEISTOCENE		CLAY	4.3	26.0	GREEN
709.7	CARBONDALE	HERRIN	COAL	3.5	30.3	VERY SOFT; TOP ERODED
706.2	CARBONDALE		UNDERCLAY	0.7	33.8	

MAPID: 05785145000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113532

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649701

DATE COLLECTED: 11 / 20 / 1945

SURFACE ELEVATION (FT.): 744.0 LOGGED (FT.): 85.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 149

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.0	PLEISTOCENE		SOIL	1.0	0.0	
743.0	PLEISTOCENE		SAND/CLAY	27.6	1.0	& BOULDERS
715.4	PLEISTOCENE		SAND/CLAY	21.7	28.6	& BOULDERS GRAY
693.7			DARK SHALE	5.0	50.3	
688.7			UNKNOWN	6.7	55.3	
682.0			GRAY SHALE	23.3	62.0	

MAPID: 05785146000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112645

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6407

DATE COLLECTED: 12 / 29 / 1945

SURFACE ELEVATION (FT.): 753.0 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 150

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
753.0	PLEISTOCENE		SOIL	1.0	0.0
752.0	PLEISTOCENE		CLAY	23.7	1.0
728.3	MODESTO		GRAY SHALE	4.9	24.7
723.4	MODESTO		BLACK SHALE	0.5	29.6
722.9	CARBONDALE	DANVILLE	COAL W/ BLACK SHALE	2.0	30.1
720.9	CARBONDALE		UNDERCLAY	1.0	32.1
719.9	CARBONDALE		GRAY SHALE	22.2	33.1
697.7	CARBONDALE		GRAY SANDSTONE	10.3	55.3
687.4	CARBONDALE		GRAY SHALE	1.4	65.6
686.0	CARBONDALE	BRERETON	LIMESTONE	2.5	67.0
683.5	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.5	69.5
681.0	CARBONDALE	HERRIN	BLUE BAND	0.2	72.0
680.8	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.0	72.2
678.8	CARBONDALE		UNDERCLAY	0.8	74.2

MAPID: 05785147000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113829

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640725

DATE COLLECTED: 1 / 2 / 1946

SURFACE ELEVATION (FT.): 753.0 LOGGED (FT.): 71.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 152

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
753.0	PLEISTOCENE		SOIL	1.0	0.0
752.0	PLEISTOCENE		CLAY	20.3	1.0
731.7	MODESTO		SANDSTONE	2.3	21.3
729.4	MODESTO		GRAY SHALE	8.4	23.6
721.0	CARBONDALE	DANVILLE	COAL W/ BLACK SHALE	2.0	32.0
719.0	CARBONDALE		UNDERCLAY	1.0	34.0
718.0	CARBONDALE		GRAY SHALE	7.3	35.0
710.7	CARBONDALE		GRAY SANDSTONE	14.6	42.3
696.1	CARBONDALE		DARK SHALE	8.4	56.9
687.7	CARBONDALE	ANNA	BLACK SHALE	1.1	65.3
686.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.5	66.4
684.1	CARBONDALE	HERRIN	BLUE BAND	0.2	68.9
683.9	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	69.1
682.4	CARBONDALE		UNDERCLAY	1.2	70.6

MAPID: 05785148000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113629

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653323

DATE COLLECTED: 11 / 26 / 1945

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 32.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 153

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
730.0	PLEISTOCENE		SOIL	1.0	0.0
729.0	PLEISTOCENE		SANDY CLAY	23.0	1.0
706.0	CARBONDALE		SANDSTONE	1.3	24.0
704.7	CARBONDALE		CLAYSTONE	1.4	25.3
703.3	CARBONDALE	HERRIN	COAL	1.3	26.7
702.0	CARBONDALE	HERRIN	BLUE BAND	0.4	28.0
701.6	CARBONDALE	HERRIN	COAL	1.9	28.4
699.7	CARBONDALE		UNDERCLAY	2.0	30.3

MAPID: 05785149000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116145

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642539

DATE COLLECTED: 1 / 3 / 1946

SURFACE ELEVATION (FT.): 749.0 LOGGED (FT.): 62.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 154

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
749.0	PLEISTOCENE		SOIL	1.0	0.0
748.0	PLEISTOCENE		CLAY	21.3	1.0
726.7	CARBONDALE		GRAY SHALE	9.0	22.3
717.7	CARBONDALE		GRAY SANDSTONE	23.3	31.3
694.4	CARBONDALE		GRAY SHALE	2.2	54.6
692.2	CARBONDALE	ANNA	BLACK SHALE	0.2	56.8
692.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.5	57.0
689.5	CARBONDALE	HERRIN	BLUE BAND	0.5	59.5
689.0	CARBONDALE	HERRIN	COAL	1.4	60.0
687.6	CARBONDALE		UNDERCLAY	1.2	61.4

MAPID: 05785150000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112417

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649789

DATE COLLECTED: 11 / 26 / 1945

SURFACE ELEVATION (FT.): 742.0 LOGGED (FT.): 43.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 155

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
742.0	PLEISTOCENE		SOIL	1.0	0.0
741.0	PLEISTOCENE		SANDY CLAY	23.6	1.0
717.4	PLEISTOCENE		CLAY	5.4	24.6
712.0	CARBONDALE		GRAY SHALE	5.3	30.0
706.7	CARBONDALE	ANNA	DARK SHALE	2.0	35.3
704.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.9	37.3
702.8	CARBONDALE	HERRIN	BLUE BAND	0.4	39.2
702.4	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.7	39.6
700.7	CARBONDALE		UNDERCLAY	1.7	41.3

MAPID: 05785151000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116081

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644335

DATE COLLECTED: 1 / 4 / 1946

SURFACE ELEVATION (FT.): 748.0 LOGGED (FT.): 47.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 156

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.0	PLEISTOCENE		SOIL	1.0	0.0	
747.0	PLEISTOCENE		CLAY	22.3	1.0	
724.7	CARBONDALE		GRAY SANDSTONE	4.3	23.3	
720.4	CARBONDALE		BLACK SHALE	13.7	27.6	
706.7	CARBONDALE	ANNA	BLACK SHALE	1.3	41.3	
705.4	CARBONDALE	HERRIN	COAL	2.5	42.6	
702.9	CARBONDALE	HERRIN	BLUE BAND	0.2	45.1	
702.7	CARBONDALE	HERRIN	COAL	1.4	45.3	
701.3	CARBONDALE		UNDERCLAY	1.1	46.7	

MAPID: 05785152000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112342

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651497

DATE COLLECTED: 11 / 28 / 1945

SURFACE ELEVATION (FT.): 734.0 LOGGED (FT.): 55.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 157

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.0	PLEISTOCENE		SOIL	1.0	0.0	
733.0	PLEISTOCENE		SANDY CLAY	24.6	1.0	YELLOW
708.4	PLEISTOCENE		SANDY CLAY	29.7	25.6	

MAPID: 05785153000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113657 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647888 DATE COLLECTED: 11 / 29 / 1945

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 55.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 159 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.0	PLEISTOCENE		SOIL	1.0	0.0	
744.0	PLEISTOCENE		SANDY CLAY	20.6	1.0	YELLOW
723.4	PLEISTOCENE		SANDY CLAY	5.4	21.6	GRAY
718.0	PLEISTOCENE		CLAY	8.0	27.0	
710.0	CARBONDALE		SHALE	10.6	35.0	GREEN
699.4	CARBONDALE		DARK SHALE	3.4	45.6	
696.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.4	49.0	
694.6	CARBONDALE	HERRIN	BLUE BAND	0.4	50.4	
694.2	CARBONDALE	HERRIN	COAL	2.5	50.8	
691.7	CARBONDALE		UNDERCLAY	2.0	53.3	

MAPID: 05785154000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113515 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650609 DATE COLLECTED: 12 / 3 / 1945

SURFACE ELEVATION (FT.): 741.0 LOGGED (FT.): 75.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 167 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.0	PLEISTOCENE		SOIL	1.0	0.0	
740.0	PLEISTOCENE		SANDY CLAY	26.6	1.0	
713.4	PLEISTOCENE		SANDY CLAY	17.7	27.6	
695.7			UNKNOWN	7.2	45.3	
688.5			GRAY SHALE	22.8	52.5	

MAPID: 05785155000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.114793

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649741

DATE COLLECTED: 12 / 4 / 1945

SURFACE ELEVATION (FT.): 740.0 LOGGED (FT.): 37.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 169

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.0	PLEISTOCENE		SOIL	1.0	0.0	
739.0	PLEISTOCENE		SANDY CLAY	20.6	1.0	
718.4	PLEISTOCENE		SANDY CLAY	4.4	21.6	& BOULDERS GRAY
714.0	CARBONDALE	BRERETON	LIMESTONE	3.0	26.0	
711.0	CARBONDALE	ANNA	DARK SHALE	1.3	29.0	
709.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	30.3	
708.2	CARBONDALE	HERRIN	BLUE BAND	0.4	31.8	
707.8	CARBONDALE	HERRIN	COAL	2.4	32.2	
705.4	CARBONDALE		UNDERCLAY	2.4	34.6	

MAPID: 05785156000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11477

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647937

DATE COLLECTED: 12 / 5 / 1945

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 52.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 171

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0	PLEISTOCENE		SOIL	1.0	0.0	
745.0	PLEISTOCENE		SANDY CLAY	22.6	1.0	
722.4	PLEISTOCENE		SANDY CLAY	9.2	23.6	& BOULDERS
713.2	CARBONDALE		LIMESTONE	4.0	32.8	
709.2	CARBONDALE		UNKNOWN	6.1	36.8	
703.0	CARBONDALE		GRAY SHALE	4.0	43.0	
699.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.0	47.0	
697.0	CARBONDALE	HERRIN	SHALE	0.4	49.0	
696.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.1	49.4	
695.5	CARBONDALE		UNDERCLAY	2.4	50.5	

MAPID: 05785157000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107827 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642303 DATE COLLECTED: 9 / 29 / 1956

SURFACE ELEVATION (FT.): 756.5 LOGGED (FT.): 74.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 360 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
756.5	PLEISTOCENE		SOIL	1.0	0.0
755.5	PLEISTOCENE		CLAY	13.5	1.0
742.0	PLEISTOCENE		CLAY, SAND & GRAVEL	12.4	14.5
729.6	MODESTO		GRAY SHALE	4.1	26.9
725.5	MODESTO		GRAY SHALE	2.0	31.0
723.5	MODESTO		LIMESTONE	0.2	33.0
723.3	CARBONDALE	DANVILLE	COAL	1.8	33.2
721.5	CARBONDALE		UNDERCLAY	1.2	35.0
720.3	CARBONDALE		GRAY SHALE	3.8	36.2
716.5	CARBONDALE		GRAY SANDSTONE	1.0	40.0
715.5	CARBONDALE		GRAY SHALE	9.0	41.0
706.5	CARBONDALE		GRAY SANDSTONE	1.7	50.0
704.8	CARBONDALE		DARK SHALE	15.3	51.7
689.5	CARBONDALE	ANNA	BLACK SHALE	1.5	67.0
688.0	CARBONDALE	HERRIN	COAL	2.6	68.5
685.4	CARBONDALE	HERRIN	BLUE BAND	0.2	71.1
685.2	CARBONDALE	HERRIN	COAL	2.0	71.3
683.2	CARBONDALE		UNDERCLAY	1.2	73.3

MAPID: 05785158000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116068 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64609 DATE COLLECTED: 12 / 7 / 1945

SURFACE ELEVATION (FT.): 748.0 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 173 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
748.0	PLEISTOCENE		SOIL	1.0	0.0
747.0	PLEISTOCENE		SANDY CLAY	31.6	1.0
715.4	CARBONDALE		GRAY SHALE	9.2	32.6
706.2	CARBONDALE	ANNA	DARK SHALE	2.0	41.8
704.2	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.8	43.8
702.4	CARBONDALE	HERRIN	SHALE	0.4	45.6
702.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.9	46.0
700.1	CARBONDALE		UNDERCLAY	2.1	47.9

MAPID: 05785159000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113681

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64608

DATE COLLECTED: 12 / 7 / 1945

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 46.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 175

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.0	PLEISTOCENE		SOIL	1.0	0.0	
744.0	PLEISTOCENE		SANDY CLAY	26.0	1.0	
718.0	CARBONDALE		LIMESTONE	1.0	27.0	
717.0	CARBONDALE		GRAY SHALE	10.6	28.0	
706.4	CARBONDALE	ANNA	DARK SHALE	1.4	38.6	
705.0	CARBONDALE	ANNA	BLACK SHALE	0.9	40.0	
704.1	CARBONDALE	HERRIN	COAL	1.8	40.9	
702.3	CARBONDALE	HERRIN	BLUE BAND	0.4	42.7	
701.9	CARBONDALE	HERRIN	COAL	1.8	43.1	
700.1	CARBONDALE		UNDERCLAY	1.7	44.9	

MAPID: 05785160000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112486

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646067

DATE COLLECTED: 12 / 8 / 1945

SURFACE ELEVATION (FT.): 743.0 LOGGED (FT.): 51.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 177

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.0	PLEISTOCENE		SOIL	1.0	0.0	
742.0	PLEISTOCENE		SANDY CLAY	24.6	1.0	GRAY
717.4	PLEISTOCENE		SANDY CLAY	2.0	25.6	GRAY
715.4	PLEISTOCENE		SANDY CLAY	5.5	27.6	GRAY AND BOULDERS
709.9	CARBONDALE		GRAY SHALE	9.9	33.1	
700.0	CARBONDALE	ANNA	DARK SHALE	1.8	43.0	
698.2	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.7	44.8	
696.5	CARBONDALE	HERRIN	SHALE	0.6	46.5	
695.9	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.7	47.1	
694.2	CARBONDALE		UNDERCLAY	2.4	48.8	

MAPID: 05785161000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112361

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648766

DATE COLLECTED: 12 / 10 / 1945

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 43.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 179

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.0	PLEISTOCENE		SOIL	1.0	0.0	
731.0	PLEISTOCENE		SANDY CLAY	23.6	1.0	YELLOW
707.4	PLEISTOCENE		SANDY CLAY	4.2	24.6	GRAY
703.2	CARBONDALE		GRAY SHALE	8.2	28.8	
695.0	CARBONDALE	BRERETON	LIMESTONE	1.0	37.0	
694.0	CARBONDALE	ANNA	BLACK SHALE	0.9	38.0	
693.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	38.9	
691.5	CARBONDALE	HERRIN	SHALE	0.4	40.5	
691.1	CARBONDALE	HERRIN	COAL	1.9	40.9	
689.2	CARBONDALE		UNDERCLAY	1.0	42.8	

MAPID: 05785162000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112628

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642463

DATE COLLECTED: 12 / 28 / 1945

SURFACE ELEVATION (FT.): 749.0 LOGGED (FT.): 71.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 183

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.0	PLEISTOCENE		SOIL	1.0	0.0	
748.0	PLEISTOCENE		SANDY CLAY	23.1	1.0	
724.9	CARBONDALE	DANVILLE	COAL	1.8	24.1	BROKEN
723.1	CARBONDALE		CLAYSTONE	4.7	25.9	
718.4	CARBONDALE		GRAY SHALE	32.4	30.6	
686.0	CARBONDALE	ANNA	DARK SHALE	1.9	63.0	
684.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	64.9	
682.5	CARBONDALE	HERRIN	SHALE	0.4	66.5	
682.1	CARBONDALE	HERRIN	COAL	1.9	66.9	
680.2	CARBONDALE		UNDERCLAY	2.5	68.8	

MAPID: 05785163000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112462

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644257

DATE COLLECTED: 12 / 29 / 1945

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 53.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 185

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0	PLEISTOCENE		SOIL	1.0	0.0	
746.0	PLEISTOCENE		SANDY CLAY	24.6	1.0	& BOULDERS YELLOW
721.4	PLEISTOCENE		SANDY CLAY	7.4	25.6	
714.0	CARBONDALE		GRAY SANDSTONE	9.6	33.0	
704.4	CARBONDALE		GRAY SHALE	5.8	42.6	
698.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	3.4	48.4	
695.2	CARBONDALE		UNDERCLAY	2.0	51.8	

MAPID: 05785164000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113683

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644262

DATE COLLECTED: 1 / 2 / 1946

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 49.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 187

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0	PLEISTOCENE		SOIL	1.0	0.0	
746.0	PLEISTOCENE		SANDY CLAY	22.6	1.0	& BOULDERS
723.4	PLEISTOCENE		SANDY CLAY	6.0	23.6	
717.4	CARBONDALE		GRAY SHALE	3.8	29.6	
713.6	CARBONDALE		LIMESTONE	1.8	33.4	
711.8	CARBONDALE		GRAY SHALE	6.9	35.2	
704.9	CARBONDALE	ANNA	DARK SHALE	1.6	42.1	
703.3	CARBONDALE	HERRIN	COAL	1.7	43.7	
701.6	CARBONDALE	HERRIN	SHALE	0.6	45.4	
701.0	CARBONDALE	HERRIN	COAL	1.9	46.0	
699.1	CARBONDALE		UNDERCLAY	1.9	47.9	

MAPID: 05785165000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118486

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644331

DATE COLLECTED: 1 / 28 / 1946

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 48.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 188

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0	PLEISTOCENE		SOIL	1.0	0.0	
745.0	PLEISTOCENE		CLAY	11.3	1.0	YELLOW
733.7	PLEISTOCENE		CLAY	9.3	12.3	GRAY
724.4	CARBONDALE		GRAY SANDSTONE	12.3	21.6	
712.1	CARBONDALE		GRAY SHALE	9.9	33.9	
702.2	CARBONDALE	HERRIN	COAL	2.5	43.8	
699.7	CARBONDALE	HERRIN	BLUE BAND	0.2	46.3	
699.5	CARBONDALE	HERRIN	COAL	1.4	46.5	
698.1	CARBONDALE		UNDERCLAY	1.0	47.9	

MAPID: 05785166000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113689

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642466

DATE COLLECTED: 1 / 4 / 1946

SURFACE ELEVATION (FT.): 749.0 LOGGED (FT.): 71.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 189

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.0	PLEISTOCENE		SOIL	1.0	0.0	
748.0	PLEISTOCENE		SANDY CLAY	24.0	1.0	
724.0	CARBONDALE	DANVILLE	COAL	1.6	25.0	BROKEN; TOP ERODED
722.4	CARBONDALE		CLAYSTONE	12.0	26.6	SANDY
710.4	CARBONDALE		GRAY SANDSTONE	7.4	38.6	
703.0	CARBONDALE		GRAY SHALE	11.2	46.0	
691.8	CARBONDALE	BRERETON	LIMESTONE	6.1	57.2	
685.7	CARBONDALE		GRAY SHALE	2.0	63.3	
683.7	CARBONDALE	HERRIN	COAL	3.7	65.3	
680.0	CARBONDALE		UNDERCLAY	2.4	69.0	

MAPID: 05785167000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118585

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640805

DATE COLLECTED: 1 / 26 / 1946

SURFACE ELEVATION (FT.): 749.0 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 190

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
749.0	PLEISTOCENE		SOIL	1.0	0.0
748.0	PLEISTOCENE		CLAY	25.3	1.0
722.7	PLEISTOCENE		SANDY CLAY	20.5	26.3
702.2	CARBONDALE		GRAY SHALE	19.5	46.8
682.7	CARBONDALE	HERRIN	COAL	2.9	66.3
679.8	CARBONDALE		UNDERCLAY	0.8	69.2

MAPID: 05785168000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118258

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655208

DATE COLLECTED: 2 / 12 / 1945

SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 61.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 216

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
722.0	PLEISTOCENE		SOIL	1.0	0.0
721.0	PLEISTOCENE		CLAY	20.3	1.0
700.7	CARBONDALE		GRAY SHALE	14.5	21.3
686.2	CARBONDALE		DARK SHALE	15.5	35.8
670.7	CARBONDALE	HERRIN	COAL/SANDSTONE	2.5	51.3
668.2	CARBONDALE		UNDERCLAY	1.5	53.8
666.7	CARBONDALE		GRAY SHALE	6.0	55.3

MAPID: 05785169000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118445

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646216

DATE COLLECTED: 1 / 28 / 1946

SURFACE ELEVATION (FT.): 748.0 LOGGED (FT.): 53.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 221

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.0	PLEISTOCENE		SOIL	1.0	0.0	
747.0	PLEISTOCENE		SANDY CLAY	22.6	1.0	YELLOW
724.4	PLEISTOCENE		SANDY CLAY	6.4	23.6	GRAY
718.0	CARBONDALE		GRAY SHALE	3.6	30.0	
714.4	CARBONDALE		LIMESTONE	2.4	33.6	
712.0	CARBONDALE		GRAY SHALE	9.3	36.0	
702.7	CARBONDALE	ANNA	DARK SHALE	3.0	45.3	
699.7	CARBONDALE	HERRIN	COAL	1.4	48.3	
698.3	CARBONDALE	HERRIN	BLUE BAND	0.4	49.7	
697.9	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.0	50.1	
695.9	CARBONDALE		UNDERCLAY	1.2	52.1	

MAPID: 05785170000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118592

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64275

DATE COLLECTED: 1 / 29 / 1946

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 223

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0	PLEISTOCENE		SOIL	1.0	0.0	
746.0	PLEISTOCENE		SANDY CLAY	9.0	1.0	
737.0	PLEISTOCENE		UNKNOWN	2.0	10.0	
735.0	PLEISTOCENE		SANDY CLAY	3.6	12.0	YELLOW
731.4	PLEISTOCENE		SANDY CLAY	10.0	15.6	GRAY
721.4	PLEISTOCENE		SAND	8.4	25.6	
713.0	PLEISTOCENE		SANDY CLAY	19.3	34.0	
693.7	CARBONDALE		GRAY SHALE	3.7	53.3	
690.0	CARBONDALE	ANNA	DARK SHALE	2.5	57.0	
687.5	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.7	59.5	
685.8	CARBONDALE	HERRIN	SHALE	0.3	61.2	
685.5	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.2	61.5	
684.3	CARBONDALE		UNDERCLAY	2.3	62.7	

MAPID: 05785171000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11865 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.653297 DATE COLLECTED: 2 / 12 / 1946
SURFACE ELEVATION (FT.): 733.0 LOGGED (FT.): 60.3 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 249 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.0	PLEISTOCENE		SOIL	1.0	0.0	
732.0	PLEISTOCENE		SANDY CLAY	23.6	1.0	YELLOW WITH BOULDERS
708.4	PLEISTOCENE		SANDY CLAY	10.4	24.6	& BOULDERS GRAY
698.0			GRAY SHALE	25.3	35.0	

MAPID: 05785172000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116038 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.653327 DATE COLLECTED: 2 / 13 / 1946
SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 16.4 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 251 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.0	PLEISTOCENE		SOIL	1.0	0.0	
721.0	PLEISTOCENE		SANDY CLAY	12.2	1.0	
708.8	CARBONDALE	HERRIN	COAL	2.8	13.2	SOFT; TOP ERODED
706.0	CARBONDALE		UNDERCLAY	0.4	16.0	

MAPID: 05785177000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120749 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.657088 DATE COLLECTED: 6 / 11 / 1975
SURFACE ELEVATION (FT.): 669.1 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 22942 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.1	PLEISTOCENE		CLAY & GRAVEL	10.0	0.0	YELLOW
659.1	PLEISTOCENE		CLAY & GRAVEL	35.5	10.0	GRAY
623.6			GRAY SANDSTONE	4.5	45.5	

MAPID: 05785181000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119046

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646155

DATE COLLECTED: 6 / 12 / 1975

SURFACE ELEVATION (FT.): 741.9 LOGGED (FT.): 116.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22946

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
741.9	PLEISTOCENE		SOIL	1.0	0.0
740.9	PLEISTOCENE		SANDY CLAY	21.5	1.0
719.4	CARBONDALE		SANDSTONE	12.0	22.5
707.4	CARBONDALE		GRAY SANDSTONE	5.4	34.5
702.0	CARBONDALE	BRERETON	LIMESTONE	4.5	39.9
697.5	CARBONDALE	HERRIN	SANDSTONE/COAL	0.6	44.4
696.9	CARBONDALE	HERRIN	COAL	2.8	45.0
694.1	CARBONDALE		UNDERCLAY	2.2	47.8
691.9	CARBONDALE		SANDSTONE	19.6	50.0
672.3	CARBONDALE		GRAY SHALE	20.4	69.6
651.9	CARBONDALE		DARK SHALE	17.0	90.0
634.9	CARBONDALE	ST. DAVID	LIMESTONE	0.7	107.0
634.2	CARBONDALE	TURNER MINE	DARK SHALE	1.5	107.7
632.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	109.2
631.5	CARBONDALE	SPRINGFIELD	COAL	3.4	110.4
628.1	CARBONDALE		UNDERCLAY	2.2	113.8

MAPID: 05785182000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.115156

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6482

DATE COLLECTED: 6 / 13 / 1975

SURFACE ELEVATION (FT.): 744.6 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22947

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.6	PLEISTOCENE		SANDY CLAY	27.6	0.0	
717.0	CARBONDALE		SANDY SHALE	4.4	27.6	SOFT
712.6	CARBONDALE		GRAY SHALE	10.5	32.0	
702.1	CARBONDALE	ANNA	DARK SHALE	2.5	42.5	
699.6	CARBONDALE	HERRIN	COAL	2.0	45.0	
697.6	CARBONDALE	HERRIN	BLUE BAND	0.2	47.0	
697.4	CARBONDALE	HERRIN	COAL	1.4	47.2	
696.0	CARBONDALE		UNDERCLAY	1.8	48.6	
694.2	CARBONDALE		GRAY SHALE	1.6	50.4	
692.6	CARBONDALE		SANDSTONE	26.2	52.0	
666.4	CARBONDALE		GRAY SHALE	11.8	78.2	
654.6	CARBONDALE		DARK SHALE	13.2	90.0	
641.4	CARBONDALE		LIMESTONE	0.3	103.2	
641.1	CARBONDALE		DARK SHALE	2.9	103.5	
638.2	CARBONDALE	ST. DAVID	LIMESTONE	0.8	106.4	
637.4	CARBONDALE	TURNER MINE	DARK SHALE	1.2	107.2	
636.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	108.4	
635.1	CARBONDALE	SPRINGFIELD	COAL	3.6	109.5	
631.5	CARBONDALE		UNDERCLAY	1.9	113.1	

MAPID: 05785185000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117069 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647401 DATE COLLECTED: 6 / 13 / 1975

SURFACE ELEVATION (FT.): 747.7 LOGGED (FT.): 125.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23202 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.7	PLEISTOCENE		CLAY	25.0	0.0	YELLOW
722.7	PLEISTOCENE		CLAY	2.6	25.0	GRAY
720.1	CARBONDALE		SANDSTONE	11.4	27.6	
708.7	CARBONDALE		GRAY SHALE	13.0	39.0	
695.7	CARBONDALE	HERRIN	COAL	2.0	52.0	
693.7	CARBONDALE	HERRIN	BLUE BAND	0.2	54.0	
693.5	CARBONDALE	HERRIN	COAL	1.8	54.2	
691.7	CARBONDALE		UNDERCLAY	1.6	56.0	
690.1	CARBONDALE		MICACEOUS SHALE	53.2	57.6	
636.9	CARBONDALE		LIMESTONE	0.4	110.8	
636.5	CARBONDALE		DARK SHALE	3.5	111.2	
633.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	114.7	
632.0	CARBONDALE	TURNER MINE	DARK SHALE	1.8	115.7	
630.2	CARBONDALE	TURNER MINE	DARK SHALE	1.9	117.5	
628.3	CARBONDALE	SPRINGFIELD	COAL	3.6	119.4	
624.7	CARBONDALE		UNDERCLAY	2.0	123.0	

MAPID: 05785186000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113551 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648928 DATE COLLECTED: 6 / 13 / 1975

SURFACE ELEVATION (FT.): 744.2 LOGGED (FT.): 112.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23203 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.2	PLEISTOCENE		CLAY	25.0	0.0	YELLOW
719.2	PLEISTOCENE		CLAY	28.5	25.0	GRAY
690.7	CARBONDALE		GRAY SHALE	45.0	53.5	
645.7	CARBONDALE		DARK SHALE	4.2	98.5	
641.5	CARBONDALE	ST. DAVID	LIMESTONE	0.9	102.7	
640.6	CARBONDALE	TURNER MINE	DARK SHALE	1.4	103.6	
639.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	105.0	
637.7	CARBONDALE	SPRINGFIELD	COAL	3.7	106.5	
634.0	CARBONDALE		UNDERCLAY	1.8	110.2	

MAPID: 05785206000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118876

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64258

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.7 LOGGED (FT.): 107.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT6

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.7			UNKNOWN	56.8	0.0	
690.9	CARBONDALE	HERRIN	COAL	3.3	56.8	
687.6	CARBONDALE		UNKNOWN	42.9	60.1	
644.7	CARBONDALE	SPRINGFIELD	COAL	4.5	103.0	

MAPID: 05785218000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116278

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640751

DATE COLLECTED:

SURFACE ELEVATION (FT.): 751.8 LOGGED (FT.): 62.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT66

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
751.8			UNKNOWN	59.8	0.0	
692.0	CARBONDALE	HERRIN	COAL	2.5	59.8	

MAPID: 05785219000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116176

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640701

DATE COLLECTED:

SURFACE ELEVATION (FT.): 751.0 LOGGED (FT.): 63.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 76

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
751.0			UNKNOWN	61.5	0.0	
689.5	CARBONDALE	HERRIN	COAL	2.1	61.5	SOFT

MAPID: 0578522000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117433

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640786

DATE COLLECTED:

SURFACE ELEVATION (FT.): 750.7 LOGGED (FT.): 63.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT67

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.7			UNKNOWN	62.9	0.0	
687.8	CARBONDALE	HERRIN	COAL	0.8	62.9	

MAPID: 05785222000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116235

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642001

DATE COLLECTED:

SURFACE ELEVATION (FT.): 750.3 LOGGED (FT.): 61.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT47

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.3			UNKNOWN	58.5	0.0	
691.8	CARBONDALE	HERRIN	COAL	2.9	58.5	

MAPID: 05785223000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118898

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.641755

DATE COLLECTED:

SURFACE ELEVATION (FT.): 748.1 LOGGED (FT.): 62.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT38

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.1			UNKNOWN	61.5	0.0	
686.6	CARBONDALE	HERRIN	COAL	1.1	61.5	

MAPID: 05785224000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116272 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642952 DATE COLLECTED:

SURFACE ELEVATION (FT.): 748.9 LOGGED (FT.): 48.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT48 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.9			UNKNOWN	46.5	0.0	
702.4	CARBONDALE	HERRIN	COAL	1.7	46.5	

MAPID: 05785225000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116221 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.643788 DATE COLLECTED:

SURFACE ELEVATION (FT.): 748.7 LOGGED (FT.): 56.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT49 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.7			UNKNOWN	56.6	0.0	

MAPID: 05785226000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119588 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644022 DATE COLLECTED:

SURFACE ELEVATION (FT.): 748.0 LOGGED (FT.): 44.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT50 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.0			UNKNOWN	41.7	0.0	
706.3	CARBONDALE	HERRIN	COAL	3.1	41.7	

MAPID: 05785227000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120616

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669785

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 48.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT5

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0			UNKNOWN	47.9	0.0	
698.1	CARBONDALE	HERRIN	COAL	0.9	47.9	

MAPID: 05785228000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116178

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644619

DATE COLLECTED:

SURFACE ELEVATION (FT.): 748.6 LOGGED (FT.): 45.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT33

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.6			UNKNOWN	41.9	0.0	
706.7	CARBONDALE	HERRIN	COAL	3.5	41.9	

MAPID: 05785235000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120889

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64529

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 52.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT32

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.0			UNKNOWN	52.0	0.0	NO COAL

MAPID: 05785236000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119977

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645372

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 52.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT36

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
745.0			UNKNOWN	49.2	0.0
695.8	CARBONDALE	HERRIN	COAL	3.0	49.2

MAPID: 05785237000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116149

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646244

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.2 LOGGED (FT.): 110.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT37

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
747.2			UNKNOWN	41.3	0.0
705.9	CARBONDALE	HERRIN	COAL	3.5	41.3
702.4	CARBONDALE		UNKNOWN	61.0	44.8
641.4	CARBONDALE	SPRINGFIELD	COAL	4.4	105.8

MAPID: 05785272000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.1124

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647861

DATE COLLECTED:

SURFACE ELEVATION (FT.): 742.0 LOGGED (FT.): 43.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 161

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
742.0			UNKNOWN	40.1	0.0
701.9	CARBONDALE	HERRIN	COAL	3.7	40.1

MAPID: 05785275000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118871

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640798

DATE COLLECTED:

SURFACE ELEVATION (FT.): 749.2 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT7

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.2			UNKNOWN	80.0	0.0	NO COAL

MAPID: 05785280000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120861

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647837

DATE COLLECTED:

SURFACE ELEVATION (FT.): 736.4 LOGGED (FT.): 42.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1969

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.4			UNKNOWN	40.6	0.0	
695.8	CARBONDALE	HERRIN	COAL	2.2	40.6	

MAPID: 05785281000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120817

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648104

DATE COLLECTED:

SURFACE ELEVATION (FT.): 734.2 LOGGED (FT.): 35.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1970

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.2			UNKNOWN	34.5	0.0	
699.7	CARBONDALE	HERRIN	COAL	0.9	34.5	

MAPID: 05785282000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120626

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647471

DATE COLLECTED:

SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 49.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1971

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.0			UNKNOWN	49.0	0.0	NO COAL

MAPID: 05785284000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120445

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647455

DATE COLLECTED:

SURFACE ELEVATION (FT.): 741.0 LOGGED (FT.): 49.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1974

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.0			UNKNOWN	49.0	0.0	NO COAL

MAPID: 05785285000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12076

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649057

DATE COLLECTED:

SURFACE ELEVATION (FT.): 728.7 LOGGED (FT.): 25.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1977

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.7			UNKNOWN	23.3	0.0	
705.4	CARBONDALE	HERRIN	COAL	1.0	23.3	POOR FLOAT
704.4	CARBONDALE	HERRIN	COAL	1.3	24.3	

MAPID: 05785286000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120942

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64881

DATE COLLECTED:

SURFACE ELEVATION (FT.): 721.2 LOGGED (FT.): 18.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1978

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.2			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05785289000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118465

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648026

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 47.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 246

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0			UNKNOWN	43.3	0.0	
703.7	CARBONDALE	HERRIN	COAL	3.9	43.3	

MAPID: 05785290000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116132

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647558

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 54.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 72

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0			UNKNOWN	50.2	0.0	
695.8	CARBONDALE	HERRIN	COAL	3.9	50.2	

MAPID: 05785292000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.12082 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.649652 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 740.3 **LOGGED (FT.):** 49.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1982 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.3			UNKNOWN	49.0	0.0	NO COAL

MAPID: 05785293000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.120571 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.64935 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 738.0 **LOGGED (FT.):** 49.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1983 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.0			UNKNOWN	49.0	0.0	NO COAL

MAPID: 05785294000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.120345 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.647566 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 740.7 **LOGGED (FT.):** 44.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1984 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.7			UNKNOWN	41.9	0.0	
698.8	CARBONDALE	HERRIN	COAL	2.3	41.9	

MAPID: 05785295000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120617

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649692

DATE COLLECTED:

SURFACE ELEVATION (FT.): 740.9 LOGGED (FT.): 59.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1985

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.9			UNKNOWN	59.0	0.0	NO COAL

MAPID: 05785296000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120093

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64744

DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.9 LOGGED (FT.): 47.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1986

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.9			UNKNOWN	45.7	0.0	
699.2	CARBONDALE	HERRIN	COAL	1.4	45.7	

MAPID: 05785297000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11984

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647428

DATE COLLECTED:

SURFACE ELEVATION (FT.): 743.5 LOGGED (FT.): 48.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1987

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.5			UNKNOWN	47.8	0.0	
695.7	CARBONDALE	HERRIN	COAL	0.4	47.8	

MAPID: 05785298000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.120345 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.649591 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 739.0 **LOGGED (FT.):** 56.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1988 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.0			UNKNOWN	56.0	0.0	NO COAL

MAPID: 05785299000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.12025 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.649495 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 741.0 **LOGGED (FT.):** 59.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1989 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.0			UNKNOWN	59.0	0.0	NO COAL

MAPID: 05785300000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.120345 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.649199 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 739.7 **LOGGED (FT.):** 49.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1991 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.7			UNKNOWN	49.0	0.0	NO COAL

MAPID: 05785301000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.119969 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.649284 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 741.8 **LOGGED (FT.):** 49.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1993 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.8			UNKNOWN	49.0	0.0	NO COAL

MAPID: 05785302000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120455

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651376

DATE COLLECTED:

SURFACE ELEVATION (FT.): 736.5 LOGGED (FT.): 29.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2003

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.5			UNKNOWN	25.6	0.0	
710.9	CARBONDALE	HERRIN	COAL	1.9	25.6	
709.0	CARBONDALE	HERRIN	SHALE	0.2	27.5	
708.8	CARBONDALE	HERRIN	COAL	2.1	27.7	

MAPID: 05785303000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120274

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650212

DATE COLLECTED:

SURFACE ELEVATION (FT.): 738.2 LOGGED (FT.): 31.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2005

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.2			UNKNOWN	27.2	0.0	
711.0	CARBONDALE	HERRIN	COAL	3.0	27.2	
708.0	CARBONDALE	HERRIN	SHALE	0.3	30.2	
707.7	CARBONDALE	HERRIN	COAL	1.3	30.5	

MAPID: 05785304000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120358

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649872

DATE COLLECTED:

SURFACE ELEVATION (FT.): 740.8 LOGGED (FT.): 49.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2006

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.8			UNKNOWN	49.0	0.0	NO COAL

MAPID: 05785305000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120509

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650183

DATE COLLECTED:

SURFACE ELEVATION (FT.): 739.2 LOGGED (FT.): 36.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2007

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.2			UNKNOWN	34.9	0.0	
704.3	CARBONDALE	HERRIN	COAL	1.1	34.9	BLOSSOM

MAPID: 05785306000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120782

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650359

DATE COLLECTED:

SURFACE ELEVATION (FT.): 737.8 LOGGED (FT.): 59.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2008

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.8			UNKNOWN	59.0	0.0	NO COAL

MAPID: 05785307000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120374

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650441

DATE COLLECTED:

SURFACE ELEVATION (FT.): 731.2 LOGGED (FT.): 39.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2009

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.2			UNKNOWN	39.0	0.0	NO COAL

MAPID: 05785308000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120697

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650958

DATE COLLECTED:

SURFACE ELEVATION (FT.): 732.2 LOGGED (FT.): 49.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2011

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.2			UNKNOWN	49.0	0.0	NO COAL

MAPID: 05785309000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137205

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651047

DATE COLLECTED:

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 95.8

LOG TYPE: Drillers Log

SOURCE: FULTON 8

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.0			UNKNOWN	27.5	0.0	
704.5	CARBONDALE	HERRIN	COAL	3.3	27.5	
701.2	CARBONDALE		UNKNOWN	61.0	30.8	
640.2	CARBONDALE	SPRINGFIELD	COAL	4.0	91.8	

MAPID: 05785310000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120297

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65075

DATE COLLECTED:

SURFACE ELEVATION (FT.): 737.3 LOGGED (FT.): 30.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2013

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.3			UNKNOWN	29.5	0.0	
707.8	CARBONDALE	HERRIN	COAL	1.0	29.5	BLOSSOM

MAPID: 05785311000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120343

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65107

DATE COLLECTED:

SURFACE ELEVATION (FT.): 734.3 LOGGED (FT.): 28.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2015

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.3			UNKNOWN	24.5	0.0	
709.8	CARBONDALE	HERRIN	COAL	2.1	24.5	
707.7	CARBONDALE	HERRIN	SHALE	0.2	26.6	
707.5	CARBONDALE	HERRIN	COAL	1.3	26.8	

MAPID: 05785313000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116093

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651682

DATE COLLECTED:

SURFACE ELEVATION (FT.): 739.0 LOGGED (FT.): 97.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT68

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.0			UNKNOWN	28.9	0.0	
710.1	CARBONDALE	HERRIN	COAL	4.1	28.9	
706.0	CARBONDALE		UNKNOWN	60.2	33.0	
645.8	CARBONDALE	SPRINGFIELD	COAL	4.3	93.2	

MAPID: 05785315000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112426

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653293

DATE COLLECTED:

SURFACE ELEVATION (FT.): 701.0 LOGGED (FT.): 34.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 122

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.0			UNKNOWN	34.0	0.0	NO COAL

MAPID: 05785317000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.120485 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.650724 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 731.2 **LOGGED (FT.):** 39.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2010 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
731.2			UNKNOWN	39.0	0.0	NO COAL

MAPID: 05785318000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.120666 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.651523 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 736.3 **LOGGED (FT.):** 59.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2021 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
736.3			UNKNOWN	59.0	0.0	NO COAL

MAPID: 05785319000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.12065 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653783 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 735.0 **LOGGED (FT.):** 45.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2022 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
735.0			UNKNOWN	45.0	0.0	NO COAL

MAPID: 05785321000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120632

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652616

DATE COLLECTED:

SURFACE ELEVATION (FT.): 735.1 LOGGED (FT.): 32.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2024

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.1			UNKNOWN	29.5	0.0	
705.6	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.8	29.5	
703.8	CARBONDALE	HERRIN	COAL	0.8	31.3	SOFT

MAPID: 05785322000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120313

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653749

DATE COLLECTED:

SURFACE ELEVATION (FT.): 733.8 LOGGED (FT.): 69.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2025

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.8			UNKNOWN	69.0	0.0	NO COAL

MAPID: 05785323000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119969

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653712

DATE COLLECTED:

SURFACE ELEVATION (FT.): 734.2 LOGGED (FT.): 49.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2026

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.2			UNKNOWN	49.0	0.0	NO COAL

MAPID: 05785324000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.119657 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653678 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 734.2 **LOGGED (FT.):** 49.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2027 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.2			UNKNOWN	49.0	0.0	NO COAL

MAPID: 05785327000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.120631 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.652862 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 735.1 **LOGGED (FT.):** 59.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2030 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.1			UNKNOWN	59.0	0.0	NO COAL

MAPID: 05785328000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.119694 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653399 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 733.1 **LOGGED (FT.):** 49.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2031 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.1			UNKNOWN	49.0	0.0	NO COAL

MAPID: 05785329000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.11975 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653128 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 733.7 **LOGGED (FT.):** 49.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2032 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.7			UNKNOWN	49.0	0.0	NO COAL

MAPID: 05785330000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652831

DATE COLLECTED:

SURFACE ELEVATION (FT.): 734.0 LOGGED (FT.): 49.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2033

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.0			UNKNOWN	49.0	0.0	NO COAL

MAPID: 05785331000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119618

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652238

DATE COLLECTED:

SURFACE ELEVATION (FT.): 736.1 LOGGED (FT.): 28.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2034

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.1			UNKNOWN	27.9	0.0	
708.2	CARBONDALE	HERRIN	COAL	0.8	27.9	

MAPID: 05785332000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119234

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65219

DATE COLLECTED:

SURFACE ELEVATION (FT.): 728.0 LOGGED (FT.): 28.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2038

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.0			UNKNOWN	28.0	0.0	NO COAL

MAPID: 05785333000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651953 DATE COLLECTED:

SURFACE ELEVATION (FT.): 734.1 LOGGED (FT.): 49.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2039 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.1			UNKNOWN	49.0	0.0	NO COAL

MAPID: 05785334000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119606 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652095 DATE COLLECTED:

SURFACE ELEVATION (FT.): 736.4 LOGGED (FT.): 29.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2040 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.4			UNKNOWN	25.8	0.0	
710.6	CARBONDALE	HERRIN	COAL	2.0	25.8	
708.6	CARBONDALE	HERRIN	SHALE	0.4	27.8	
708.2	CARBONDALE	HERRIN	COAL	1.7	28.2	

MAPID: 05785335000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118941 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651808 DATE COLLECTED:

SURFACE ELEVATION (FT.): 736.6 LOGGED (FT.): 29.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2041 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.6			UNKNOWN	27.6	0.0	
709.0	CARBONDALE	HERRIN	COAL	1.4	27.6	BROKEN

MAPID: 05785351000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120524

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651883

DATE COLLECTED:

SURFACE ELEVATION (FT.): 742.3 LOGGED (FT.): 29.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2106

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.3			UNKNOWN	25.2	0.0	
717.1	CARBONDALE	HERRIN	COAL	2.9	25.2	BROKEN & SOFT
714.2	CARBONDALE	HERRIN	COAL	1.1	28.1	SOFT

MAPID: 05785352000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120524

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651883

DATE COLLECTED:

SURFACE ELEVATION (FT.): 742.3 LOGGED (FT.): 29.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2106

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.3			UNKNOWN	25.2	0.0	
717.1	CARBONDALE	HERRIN	COAL	2.9	25.2	SOFT & BROKEN
714.2	CARBONDALE	HERRIN	COAL	1.1	28.1	SOFT

MAPID: 05785353000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120535

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652286

DATE COLLECTED:

SURFACE ELEVATION (FT.): 741.2 LOGGED (FT.): 29.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2108

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.2			UNKNOWN	25.0	0.0	
716.2	CARBONDALE	HERRIN	COAL	4.4	25.0	SOFT

MAPID: 05785354000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11634 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649772 DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.0 LOGGED (FT.): 103.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT4 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
744.0			UNKNOWN	36.6	0.0
707.4	CARBONDALE	HERRIN	COAL	3.7	36.6
703.7	CARBONDALE		UNKNOWN	58.9	40.3
644.8	CARBONDALE	SPRINGFIELD	COAL	4.5	99.2

MAPID: 05785355000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116208 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648338 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 49.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT28 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
747.0			UNKNOWN	45.5	0.0
701.5	CARBONDALE	HERRIN	COAL	3.9	45.5

MAPID: 05785356000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118194 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646915 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.6 LOGGED (FT.): 50.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT29 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
747.6			UNKNOWN	45.9	0.0
701.7	CARBONDALE	HERRIN	COAL	4.3	45.9

MAPID: 05785357000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118581

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652133

DATE COLLECTED:

SURFACE ELEVATION (FT.): 737.5 LOGGED (FT.): 31.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2118

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.5			UNKNOWN	29.9	0.0	
707.6	CARBONDALE	HERRIN	COAL	1.5	29.9	SOFT BROKEN

MAPID: 05785358000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116399

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652713

DATE COLLECTED:

SURFACE ELEVATION (FT.): 732.3 LOGGED (FT.): 25.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2122

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.3			UNKNOWN	24.1	0.0	
708.2	CARBONDALE	HERRIN	COAL	1.6	24.1	BROKEN

MAPID: 05785359000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116101

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650617

DATE COLLECTED:

SURFACE ELEVATION (FT.): 741.2 LOGGED (FT.): 34.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2123

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.2			UNKNOWN	30.9	0.0	
710.3	CARBONDALE	HERRIN	COAL	2.6	30.9	
707.7	CARBONDALE	HERRIN	BLUE BAND	0.2	33.5	
707.5	CARBONDALE	HERRIN	COAL	1.1	33.7	

MAPID: 0578536000C VERSION: 1

PROJECT: NCRD00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118295

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653715

DATE COLLECTED:

SURFACE ELEVATION (FT.): 736.5 LOGGED (FT.): 34.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2126

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
736.5			UNKNOWN	34.4	0.0	NO COAL

MAPID: 05785361000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118128

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653667

DATE COLLECTED:

SURFACE ELEVATION (FT.): 736.6 LOGGED (FT.): 33.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2127

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
736.6			UNKNOWN	33.4	0.0	NO COAL

MAPID: 05785362000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117968

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653601

DATE COLLECTED:

SURFACE ELEVATION (FT.): 736.0 LOGGED (FT.): 26.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2128

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
736.0			UNKNOWN	22.8	0.0	
713.2	CARBONDALE	HERRIN	COAL	1.6	22.8	SOFT
711.6	CARBONDALE	HERRIN	SHALE	0.2	24.4	
711.4	CARBONDALE	HERRIN	COAL	1.5	24.6	SOFT

MAPID: 05785363000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117439

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653618

DATE COLLECTED:

SURFACE ELEVATION (FT.): 733.5 LOGGED (FT.): 21.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2130

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.5			UNKNOWN	20.2	0.0	
713.3	CARBONDALE	HERRIN	COAL	1.4	20.2	SOFT & BROKEN

MAPID: 05785364000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117226

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653693

DATE COLLECTED:

SURFACE ELEVATION (FT.): 735.4 LOGGED (FT.): 24.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2132

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.4			UNKNOWN	23.2	0.0	
712.2	CARBONDALE	HERRIN	COAL	1.5	23.2	SOFT

MAPID: 05785365000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117296

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653812

DATE COLLECTED:

SURFACE ELEVATION (FT.): 732.6 LOGGED (FT.): 23.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2133

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.6			UNKNOWN	23.0	0.0	NO COAL

MAPID: 05785366000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116877

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65356

DATE COLLECTED:

SURFACE ELEVATION (FT.): 732.9 LOGGED (FT.): 18.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2134

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.9			UNKNOWN	17.8	0.0	
715.1	CARBONDALE	HERRIN	COAL	0.4	17.8	

MAPID: 05785367000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116908

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653378

DATE COLLECTED:

SURFACE ELEVATION (FT.): 733.0 LOGGED (FT.): 26.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2135

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.0			UNKNOWN	26.0	0.0	

MAPID: 05785368000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11654

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653084

DATE COLLECTED:

SURFACE ELEVATION (FT.): 734.0 LOGGED (FT.): 30.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2136

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.0			UNKNOWN	30.4	0.0	

MAPID: 05785369000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.139633 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.651567 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 734.6 **LOGGED (FT.):** 35.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2137 **WELL TYPE:** Coal Test
COMMENT: COORDINATES INCORRECT. CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.6			UNKNOWN	35.0	0.0	NO COAL

MAPID: 05785370000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.11628 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.652412 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 713.5 **LOGGED (FT.):** 11.4 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2140 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.5			UNKNOWN	11.4	0.0	NO COAL

MAPID: 05785371000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 25 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.116237 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.652462 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 712.8 **LOGGED (FT.):** 3.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2141 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.8			UNKNOWN	3.0	0.0	NO COAL

MAPID: 05785372000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11739 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647725 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.7 LOGGED (FT.): 53.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2142 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.7			UNKNOWN	48.7	0.0	
699.0	CARBONDALE	HERRIN	COAL	2.9	48.7	
696.1	CARBONDALE	HERRIN	SHALE	0.2	51.6	
695.9	CARBONDALE	HERRIN	COAL	1.5	51.8	

MAPID: 05785373000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119796 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652684 DATE COLLECTED:

SURFACE ELEVATION (FT.): 735.3 LOGGED (FT.): 30.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2150 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.3			UNKNOWN	30.4	0.0	NO COAL

MAPID: 05785374000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118676 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652588 DATE COLLECTED:

SURFACE ELEVATION (FT.): 737.4 LOGGED (FT.): 29.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2151 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.4			UNKNOWN	28.9	0.0	
708.5	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.0	28.9	SOFT

MAPID: 05785375000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116553

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652521

DATE COLLECTED:

SURFACE ELEVATION (FT.): 734.9 LOGGED (FT.): 30.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2152

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.9			UNKNOWN	30.4	0.0	NO COAL

MAPID: 05785376000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116577

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652367

DATE COLLECTED:

SURFACE ELEVATION (FT.): 732.3 LOGGED (FT.): 23.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2156

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.3			UNKNOWN	22.1	0.0	
710.2	CARBONDALE	HERRIN	COAL	0.6	22.1	VERY SOFT
709.6	CARBONDALE	HERRIN	COAL	1.0	22.7	SOFT

MAPID: 05785379000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.114138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655119

DATE COLLECTED:

SURFACE ELEVATION (FT.): 726.0 LOGGED (FT.): 85.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2160

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.0			UNKNOWN	81.4	0.0	
644.6	CARBONDALE	SPRINGFIELD	COAL	3.9	81.4	

MAPID: 05785389000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116331

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653212

DATE COLLECTED:

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 81.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT14

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.0			UNKNOWN	17.9	0.0	VERY SOFT #6 COAL
707.1	CARBONDALE		UNKNOWN	59.0	17.9	
648.1	CARBONDALE	SPRINGFIELD	COAL	4.7	76.9	

MAPID: 05785390000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120157

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654158

DATE COLLECTED:

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 94.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT16

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.0			UNKNOWN	38.6	0.0	
693.4	CARBONDALE	HERRIN	COAL	0.3	38.6	
693.1	CARBONDALE		UNKNOWN	51.3	38.9	
641.8	CARBONDALE	SPRINGFIELD	COAL	4.2	90.2	

MAPID: 05785392000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116117

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649552

DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.0 LOGGED (FT.): 102.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT4C

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.0			UNKNOWN	35.9	0.0	
708.1	CARBONDALE	HERRIN	COAL	3.5	35.9	SOFT
704.6	CARBONDALE		UNKNOWN	58.5	39.4	
646.1	CARBONDALE	SPRINGFIELD	COAL	4.3	97.9	

MAPID: 05785393000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117605

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655184

DATE COLLECTED:

SURFACE ELEVATION (FT.): 727.0 LOGGED (FT.): 84.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT34

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.0			UNKNOWN	80.2	0.0	
646.8	CARBONDALE	SPRINGFIELD	COAL	4.3	80.2	

MAPID: 05785549000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 25 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137079

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655484

DATE COLLECTED:

SURFACE ELEVATION (FT.): 709.9 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1787

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.9			UNKNOWN	80.0	0.0	NO COAL

MAPID: 05785111000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123767

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647057

DATE COLLECTED: 7 / 9 / 1970

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 49.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 11871

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.0	PLEISTOCENE		SOIL	1.0	0.0	
744.0	PLEISTOCENE		SANDY CLAY	16.4	1.0	YELLOW
727.6	PLEISTOCENE		CLAY & GRAVEL	12.1	17.4	YELLOW
715.5	PLEISTOCENE		CLAY & GRAVEL	6.5	29.5	GRAY
709.0	PLEISTOCENE		SANDY CLAY	4.7	36.0	
704.3	CARBONDALE		SHALE	1.9	40.7	SOFT
702.4	CARBONDALE	HERRIN	COAL	1.3	42.6	BLOSSOM
701.1	CARBONDALE	HERRIN	COAL	2.8	43.9	
698.3	CARBONDALE		UNDERCLAY	2.3	46.7	

MAPID: 05785112000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.124036

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64723

DATE COLLECTED: 7 / 9 / 1970

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 48.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 11872

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.0	PLEISTOCENE		SOIL	1.0	0.0	
744.0	PLEISTOCENE		SANDY CLAY	23.0	1.0	
721.0	PLEISTOCENE		CLAY & GRAVEL	4.3	24.0	
716.7	PLEISTOCENE		BOULDER	0.5	28.3	
716.2	PLEISTOCENE		SANDY CLAY	4.1	28.8	
712.1	CARBONDALE		SANDY SHALE	4.8	32.9	
707.3	CARBONDALE	BRERETON	LIMESTONE	4.1	37.7	
703.2	CARBONDALE		GRAY SHALE	0.6	41.8	
702.6	CARBONDALE		CLAYSTONE	0.4	42.4	WHITE TOP
702.2	CARBONDALE	HERRIN	COAL	1.9	42.8	
700.3	CARBONDALE	HERRIN	BLUE BAND	0.2	44.7	
700.1	CARBONDALE	HERRIN	COAL	1.6	44.9	
698.5	PLEISTOCENE		UNDERCLAY	1.5	46.5	

MAPID: 05785113000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123501

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646882

DATE COLLECTED: 7 / 10 / 1970

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 11876

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.0	PLEISTOCENE		SOIL	1.0	0.0	
744.0	PLEISTOCENE		SANDY CLAY	27.5	1.0	
716.5	PLEISTOCENE		CLAY & GRAVEL	8.8	28.5	
707.7	CARBONDALE		SANDY SHALE	8.7	37.3	SOFT
699.0	CARBONDALE	HERRIN	COAL	1.3	46.0	BLOSSOM
697.7	CARBONDALE	HERRIN	COAL	1.4	47.3	
696.3	CARBONDALE		UNDERCLAY	1.3	48.7	

MAPID: 05785114000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123532

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647563

DATE COLLECTED: 6 / 21 / 1970

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 49.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 12132

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
746.0	PLEISTOCENE		SOIL	1.0	0.0
745.0	PLEISTOCENE		CLAY	21.4	1.0
723.6	PLEISTOCENE		CLAY, SAND & GRAVEL	10.8	22.4
712.8	CARBONDALE		GRAY SHALE	10.2	33.2
702.6	CARBONDALE	ANNA	BLACK SHALE	0.7	43.4
701.9	CARBONDALE	HERRIN	COAL	3.9	44.1
698.0	CARBONDALE		UNDERCLAY	1.8	48.0

MAPID: 05785115000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123308

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647261

DATE COLLECTED: 7 / 21 / 1970

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 48.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 12133

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
746.0	PLEISTOCENE		SOIL	1.0	0.0
745.0	PLEISTOCENE		CLAY	21.4	1.0
723.6	PLEISTOCENE		CLAY, SAND & GRAVEL	10.2	22.4
713.4	CARBONDALE		GRAY SHALE	8.8	32.6
704.6	CARBONDALE	ANNA	DARK SHALE	0.8	41.4
703.8	CARBONDALE	HERRIN	COAL	2.0	42.2
701.8	CARBONDALE		UNDERCLAY	1.8	44.2
700.0	CARBONDALE		GRAY SHALE	2.3	46.0

MAPID: 05785116000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123517

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647075

DATE COLLECTED: 7 / 23 / 1970

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 50.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 12137

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0	PLEISTOCENE		SOIL	1.0	0.0	
745.0	PLEISTOCENE		SANDY CLAY	26.3	1.0	YELLOW
718.7	PLEISTOCENE		SANDY CLAY	3.6	27.3	GRAY
715.1	PLEISTOCENE		CLAY	12.2	30.9	
702.9	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.8	43.1	
701.1	CARBONDALE	HERRIN	COAL	1.9	44.9	
699.2	CARBONDALE		UNDERCLAY	1.6	46.8	
697.6	CARBONDALE		GRAY SHALE	1.9	48.4	

MAPID: 05785117000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123281

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647046

DATE COLLECTED: 7 / 23 / 1970

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 49.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 12138

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0	PLEISTOCENE		SOIL	1.0	0.0	
745.0	PLEISTOCENE		CLAY	27.9	1.0	
717.1	PLEISTOCENE		SANDY CLAY	3.5	28.9	
713.6	PLEISTOCENE		CLAY	11.6	32.4	
702.0	CARBONDALE	HERRIN	COAL	1.6	44.0	VERY SOFT; TOP ERODED
700.4	CARBONDALE		UNDERCLAY	1.9	45.6	
698.5	CARBONDALE		GRAY SHALE	1.7	47.5	

MAPID: 05785118000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123466

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647437

DATE COLLECTED: 7 / 23 / 1970

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 12139

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
746.0	PLEISTOCENE		SOIL	1.0	0.0
745.0	PLEISTOCENE		CLAY	26.9	1.0
718.1	CARBONDALE		GRAY SHALE	4.5	27.9
713.6	CARBONDALE		GRAY SHALE	10.8	32.4
702.8	CARBONDALE	ANNA	DARK SHALE	0.7	43.2
702.1	CARBONDALE	HERRIN	COAL	2.6	43.9
699.5	CARBONDALE		UNDERCLAY	1.4	46.5
698.1	CARBONDALE		GRAY SHALE	2.1	47.9

MAPID: 05785119000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.125713

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640776

DATE COLLECTED: 4 / 10 / 1937

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 58.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 16

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
745.0	PLEISTOCENE		CLAY	18.2	0.0
726.8	PLEISTOCENE		SANDY CLAY	11.7	18.2
715.1	PLEISTOCENE		CLAY	2.3	29.9
712.9	CARBONDALE		SANDY SHALE	8.6	32.1
704.3	CARBONDALE		CLAYSTONE	0.9	40.7
703.4	CARBONDALE		GRAY SHALE	12.6	41.6
690.8	CARBONDALE	HERRIN	COAL	2.3	54.2
688.6	CARBONDALE	HERRIN	BLUE BAND	0.2	56.4
688.4	CARBONDALE	HERRIN	COAL	1.6	56.6
686.8	CARBONDALE		UNDERCLAY	0.7	58.2

MAPID: 05785120000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12095 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644415 DATE COLLECTED: 4 / 12 / 1937

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 81.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0	PLEISTOCENE		CLAY	16.1	0.0	
729.9	PLEISTOCENE		CLAY	5.1	16.1	YELLOW
724.8	PLEISTOCENE		CLAY & GRAVEL	5.3	21.2	
719.5	CARBONDALE		GRAY SHALE	13.6	26.5	
706.0	CARBONDALE		SANDSTONE	1.6	40.0	SOFT
704.3	CARBONDALE		SANDY SHALE	5.4	41.7	
698.9	CARBONDALE	BRERETON	LIMESTONE	1.7	47.1	CAP ROCK
697.3	CARBONDALE		CLAYSTONE	2.3	48.7	WHITE TOP
695.0	CARBONDALE	HERRIN	COAL	0.9	51.0	
694.1	CARBONDALE		UNDERCLAY	0.8	51.9	
693.3	CARBONDALE		GRAY SHALE	3.3	52.7	
690.0	CARBONDALE		SANDSTONE	1.4	56.0	SOFT
688.7	CARBONDALE		SANDY SHALE	2.0	57.3	
686.7	CARBONDALE		SANDSTONE	2.0	59.3	SOFT
684.6	CARBONDALE		SANDY SHALE	20.4	61.4	

MAPID: 05785121000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121153 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645611 DATE COLLECTED: 4 / 26 / 1937

SURFACE ELEVATION (FT.): 744.0 LOGGED (FT.): 50.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 66 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.0	PLEISTOCENE		CLAY	15.2	0.0	
728.8	PLEISTOCENE		SANDY CLAY	6.7	15.2	
722.0	CARBONDALE		SANDY SHALE	4.8	22.0	
717.3	CARBONDALE		GRAY SHALE	15.9	26.7	
701.4	CARBONDALE	BRERETON	LIMESTONE	2.1	42.6	HARD
699.4	CARBONDALE		CLAYSTONE	1.4	44.6	WHITE TOP
698.0	CARBONDALE	HERRIN	COAL	1.3	46.0	
696.6	CARBONDALE		UNDERCLAY	0.5	47.4	
696.1	CARBONDALE		SANDY SHALE	2.5	47.9	

MAPID: 05785122000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123303

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642593

DATE COLLECTED: 4 / 29 / 1937

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 76.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 68

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0	PLEISTOCENE		CLAY	13.4	0.0	
732.6	PLEISTOCENE		CLAY	1.9	13.4	
730.7	PLEISTOCENE		SANDY CLAY	10.9	15.3	
719.8	PLEISTOCENE		CLAY	1.1	26.2	
718.7	MODESTO		BLACK SHALE	3.1	27.3	WITH CLAY
715.7	CARBONDALE	DANVILLE	COAL	1.5	30.3	
714.2	CARBONDALE		UNDERCLAY	3.7	31.8	
710.5	CARBONDALE		GRAY SHALE	12.6	35.5	
697.9	CARBONDALE		GRAY SHALE	24.7	48.1	
673.2	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.3	72.8	
673.0	CARBONDALE	HERRIN	COAL	0.8	73.0	
672.2	CARBONDALE	HERRIN	COAL	1.2	73.8	SOFT
671.0	CARBONDALE		UNDERCLAY	1.7	75.0	

MAPID: 05785123000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.125689

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642556

DATE COLLECTED: 5 / 1 / 1937

SURFACE ELEVATION (FT.): 740.0 LOGGED (FT.): 69.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 70

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.0	PLEISTOCENE		CLAY	11.2	0.0	
728.8	PLEISTOCENE		SANDY CLAY	6.6	11.2	
722.1	PLEISTOCENE		CLAY	16.4	17.9	
705.7	CARBONDALE		SANDY SHALE	2.1	34.3	
703.7	CARBONDALE		SANDSTONE	1.8	36.3	
701.9	CARBONDALE		GRAY SHALE	22.2	38.1	
679.7	CARBONDALE	BRERETON	LIMESTONE	3.0	60.3	HARD
676.6	CARBONDALE		CLAYSTONE	1.9	63.4	
674.7	CARBONDALE	HERRIN	COAL	2.4	65.3	
672.4	CARBONDALE		UNDERCLAY	1.3	67.6	
671.1	CARBONDALE		SANDY SHALE	1.0	68.9	

MAPID: 05785124000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121119

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655207

DATE COLLECTED: 9 / 26 / 1945

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 51.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 77

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.0	PLEISTOCENE		SOIL	1.0	0.0	
729.0	PLEISTOCENE		SAND/CLAY	21.6	1.0	& BOULDERS
707.4	PLEISTOCENE		SANDY CLAY	5.0	22.6	GRAY
702.4	PLEISTOCENE		SANDY CLAY	7.4	27.6	YELLOW
695.0	PLEISTOCENE		SANDY CLAY	16.6	35.0	GRAY

MAPID: 05785125000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123254

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648072

DATE COLLECTED: 9 / 26 / 1945

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 56.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 78

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0	PLEISTOCENE		SOIL	18.0	0.0	
729.0	PLEISTOCENE		CLAY	4.9	18.0	
724.1	PLEISTOCENE		CLAY	1.7	22.9	
722.4	PLEISTOCENE		GRAVEL	1.6	24.6	
720.8	PLEISTOCENE		CLAY & GRAVEL	3.8	26.2	
717.0	PLEISTOCENE		CLAY & GRAVEL	1.0	30.0	WITH WOOD
716.0	PLEISTOCENE		CLAY	5.2	31.0	BLUE
710.8	PLEISTOCENE		CLAY	1.8	36.2	GRAY
709.0	PLEISTOCENE		SAND & GRAVEL	4.0	38.0	
705.0	PLEISTOCENE		CLAY	4.2	42.0	
700.8	PLEISTOCENE		CLAY	2.2	46.2	GRAY
698.6	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.5	48.4	TOP ERODED
698.1	CARBONDALE	HERRIN	COAL	1.0	48.9	
697.1	CARBONDALE		UNDERCLAY	4.1	49.9	
693.0	CARBONDALE		ROCK	2.0	54.0	

MAPID: 05785126000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123252

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646246

DATE COLLECTED: 9 / 27 / 1945

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 54.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 79

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0	PLEISTOCENE		SOIL	18.5	0.0	
727.5	PLEISTOCENE		CLAY & GRAVEL	1.2	18.5	
726.3	PLEISTOCENE		BOULDER	0.8	19.7	
725.5	PLEISTOCENE		CLAY & GRAVEL	3.5	20.5	
722.0	PLEISTOCENE		CLAY	6.0	24.0	
716.0	CARBONDALE		GRAY SHALE	15.0	30.0	
701.0	CARBONDALE	BRERETON	LIMESTONE	3.5	45.0	
697.5	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.9	48.5	WHITE TOP
696.6	CARBONDALE	HERRIN	COAL	2.1	49.4	WHITE TOP
694.5	CARBONDALE		UNDERCLAY	3.1	51.5	

MAPID: 05785127000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123366

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640808

DATE COLLECTED: 10 / 3 / 1945

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 75.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 83

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.0	PLEISTOCENE		SOIL	1.0	0.0	
744.0	PLEISTOCENE		CLAY	6.6	1.0	
737.4	PLEISTOCENE		UNKNOWN	2.0	7.6	
735.4	PLEISTOCENE		CLAY	10.4	9.6	GRAY
725.0	PLEISTOCENE		CLAY	2.6	20.0	GREEN
722.4	PLEISTOCENE		CLAY	3.0	22.6	GRAY
719.4	PLEISTOCENE		UNKNOWN	2.0	25.6	GRAY MATERIAL & COAL
717.4	PLEISTOCENE		CLAY	8.4	27.6	GRAY MATERIAL & COAL
709.0	PLEISTOCENE		CLAY	7.6	36.0	RED
701.4	CARBONDALE		GRAY SHALE	5.0	43.6	
696.4	CARBONDALE		UNKNOWN	1.0	48.6	GRAY MATERIAL & COAL
695.4	CARBONDALE		GRAY SHALE	18.6	49.6	
676.8	CARBONDALE	ANNA	DARK SHALE	1.1	68.2	
675.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	3.3	69.3	
672.4	CARBONDALE		UNDERCLAY	3.0	72.6	

MAPID: 05785128000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120952

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642624

DATE COLLECTED: 10 / 4 / 1945

SURFACE ELEVATION (FT.): 748.0 LOGGED (FT.): 77.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 85

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.0	PLEISTOCENE		SOIL	1.0	0.0	
747.0	PLEISTOCENE		SANDY CLAY	18.6	1.0	
728.4	PLEISTOCENE		BOULDER	1.0	19.6	
727.4	PLEISTOCENE		CLAY	2.4	20.6	
725.0	PLEISTOCENE		UNKNOWN	2.1	23.0	BROKEN COAL
722.9	PLEISTOCENE		SAND/CLAY	19.5	25.1	
703.4	PLEISTOCENE		SANDY CLAY	11.0	44.6	
692.4	CARBONDALE		GRAY SHALE	11.4	55.6	
681.0	CARBONDALE		DARK SHALE	4.6	67.0	
676.4	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	3.1	71.6	
673.3	CARBONDALE		UNDERCLAY	2.3	74.7	

MAPID: 05785129000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123223

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649863

DATE COLLECTED: 11 / 14 / 1945

SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 41.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 141

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.0	PLEISTOCENE		SOIL	1.0	0.0	
734.0	PLEISTOCENE		SAND/CLAY	20.6	1.0	& BOULDERS
713.4	PLEISTOCENE		BOULDER	1.2	21.6	
712.2	PLEISTOCENE		SANDY CLAY	14.8	22.8	AND BOULDERS
697.4	CARBONDALE	HERRIN	COAL	1.2	37.6	SOFT; TOP ERODED
696.2	CARBONDALE		UNDERCLAY	2.2	38.8	

MAPID: 05785131000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.1212 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648836 DATE COLLECTED: 2 / 5 / 1946

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 75.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 202 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.0	PLEISTOCENE		SOIL	1.0	0.0	
724.0	PLEISTOCENE		CLAY	5.0	1.0	
719.0	PLEISTOCENE		SANDY CLAY	30.8	6.0	
688.2	CARBONDALE		SANDSTONE	4.5	36.8	
683.7	CARBONDALE		GRAY SHALE	20.0	41.3	
663.7	CARBONDALE		CLAYSTONE	11.0	61.3	SANDY
652.7	CARBONDALE		UNDERCLAY	3.0	72.3	NO COAL

MAPID: 05785132000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122049 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649006 DATE COLLECTED: 2 / 12 / 1946

SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 45.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 218 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.0	PLEISTOCENE		SOIL	1.0	0.0	
736.0	PLEISTOCENE		CLAY	20.3	1.0	YELLOW
715.7	PLEISTOCENE		CLAY	10.4	21.3	GRAY
705.3	PLEISTOCENE		CLAY	5.0	31.7	GREEN
700.3	PLEISTOCENE		SAND & GRAVEL	2.2	36.7	
698.1	CARBONDALE	ANNA	DARK SHALE	1.4	38.9	
696.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.5	40.3	
694.2	CARBONDALE	HERRIN	BLUE BAND	0.2	42.8	
694.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.4	43.0	
692.6	CARBONDALE		UNDERCLAY	0.9	44.4	

MAPID: 05785133000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.124442 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648033 DATE COLLECTED: 2 / 14 / 1946

SURFACE ELEVATION (FT.): 742.0 LOGGED (FT.): 35.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 220 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
742.0	PLEISTOCENE		SOIL	1.0	0.0
741.0	PLEISTOCENE		CLAY	13.3	1.0
727.7	CARBONDALE		LIMESTONE	4.6	14.3
723.1	CARBONDALE		GRAY SHALE	11.4	18.9
711.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.5	30.3
709.2	CARBONDALE	HERRIN	BLUE BAND	0.2	32.8
709.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.4	33.0
707.6	CARBONDALE		UNDERCLAY	0.9	34.4

MAPID: 05785134000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12445 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648988 DATE COLLECTED: 2 / 13 / 1946

SURFACE ELEVATION (FT.): 741.0 LOGGED (FT.): 42.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 222 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
741.0	PLEISTOCENE		SOIL	1.0	0.0
740.0	PLEISTOCENE		CLAY	17.9	1.0
722.1	CARBONDALE		LIMESTONE	2.7	18.9
719.4	CARBONDALE		GRAY SHALE	14.7	21.6
704.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.5	36.3
702.2	CARBONDALE	HERRIN	BLUE BAND	0.2	38.8
702.0	CARBONDALE	HERRIN	COAL	1.4	39.0
700.6	CARBONDALE		UNDERCLAY	1.6	40.4

MAPID: 05785135000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123237

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648991

DATE COLLECTED: 2 / 13 / 1946

SURFACE ELEVATION (FT.): 741.0 LOGGED (FT.): 44.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 253

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.0	PLEISTOCENE		SOIL	1.0	0.0	
740.0	PLEISTOCENE		SANDY CLAY	18.6	1.0	
721.4	PLEISTOCENE		CLAY, SAND & GRAVEL	11.5	19.6	
709.9	PLEISTOCENE		CLAY	2.9	31.1	
707.0	CARBONDALE		GRAY SHALE	3.8	34.0	
703.2	CARBONDALE	ANNA	DARK SHALE	1.0	37.8	
702.2	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.9	38.8	
700.3	CARBONDALE	HERRIN	BLUE BAND	0.4	40.7	
699.9	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.9	41.1	
698.0	CARBONDALE		UNDERCLAY	1.6	43.0	

MAPID: 05785136000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.124426

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649851

DATE COLLECTED: 2 / 16 / 1946

SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 37.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 255

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.0	PLEISTOCENE		SOIL	1.0	0.0	
736.0	PLEISTOCENE		SAND/CLAY	20.6	1.0	& BOULDERS YEL
715.4	PLEISTOCENE		SAND/CLAY	10.2	21.6	
705.2			UNKNOWN	1.0	31.8	
704.2	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.2	32.8	
702.0	CARBONDALE		UNDERCLAY	2.6	35.0	

MAPID: 05785137000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123213

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650768

DATE COLLECTED: 2 / 18 / 1946

SURFACE ELEVATION (FT.): 733.5 LOGGED (FT.): 65.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 257

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.5	PLEISTOCENE		SOIL	1.0	0.0	
732.5	PLEISTOCENE		SAND/CLAY	34.0	1.0	& BOULDERS
698.5	PLEISTOCENE		SANDY CLAY	20.3	35.0	
678.2			GRAY SHALE	10.0	55.3	

MAPID: 05785138000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.125729

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.641802

DATE COLLECTED: 5 / 23 / 1960

SURFACE ELEVATION (FT.): 745.2 LOGGED (FT.): 64.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 432

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.2	PLEISTOCENE		SOIL	1.0	0.0	
744.2	PLEISTOCENE		CLAY	17.5	1.0	
726.7	PLEISTOCENE		CLAY & GRAVEL	6.0	18.5	
720.7	PLEISTOCENE		CLAY, SAND & GRAVEL	2.8	24.5	
717.9	PLEISTOCENE		CLAY & GRAVEL	4.0	27.3	
713.9	CARBONDALE		GRAY SANDSTONE	7.0	31.3	
706.9	CARBONDALE		SHALE & SANDSTONE	12.0	38.3	
694.9	CARBONDALE		GRAY SHALE	8.4	50.3	
686.5	CARBONDALE	ANNA	DARK SHALE	0.9	58.7	
685.6	CARBONDALE	HERRIN	COAL/SANDSTONE	2.0	59.6	
683.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	0.2	61.6	
683.4	CARBONDALE	HERRIN	BLUE BAND	0.2	61.8	
683.2	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.7	62.0	
681.5	CARBONDALE		UNDERCLAY	0.3	63.7	

MAPID: 05785173000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121376

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647434

DATE COLLECTED: 6 / 11 / 1975

SURFACE ELEVATION (FT.): 744.5 LOGGED (FT.): 118.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22897

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
744.5	PLEISTOCENE		CLAY	24.0	0.0
720.5	PLEISTOCENE		UNCONSOLIDATED	17.7	24.0
702.8	CARBONDALE		GRAY SHALE	4.5	41.7
698.3	CARBONDALE	HERRIN	COAL	1.1	46.2
697.2	CARBONDALE		UNDERCLAY	1.7	47.3
695.5	CARBONDALE		SHALE & SANDSTONE	33.8	49.0
661.7	CARBONDALE		LIMESTONE	0.4	82.8
661.3	CARBONDALE		GRAY SHALE	22.9	83.2
638.4	CARBONDALE		LIMESTONE	0.3	106.1
638.1	CARBONDALE		DARK SHALE	2.1	106.4
636.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	108.5
635.6	CARBONDALE	TURNER MINE	DARK SHALE	2.1	108.9
633.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	111.0
632.0	CARBONDALE	SPRINGFIELD	COAL	3.2	112.5
628.8	CARBONDALE		UNDERCLAY	2.3	115.7

MAPID: 05785174000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121244

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654586

DATE COLLECTED: 6 / 11 / 1975

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22898

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
732.0	PLEISTOCENE		CLAY & GRAVEL	38.0	0.0
694.0	PLEISTOCENE		CLAY	5.0	38.0
689.0	PLEISTOCENE		BOULDER	1.2	43.0
687.8	PLEISTOCENE		UNCONSOLIDATED	34.2	44.2
653.6	CARBONDALE		DARK SHALE	2.2	78.4
651.4	CARBONDALE	ST. DAVID	LIMESTONE	0.4	80.6
651.0	CARBONDALE	TURNER MINE	DARK SHALE	1.5	81.0
649.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	82.5
647.9	CARBONDALE	SPRINGFIELD	COAL	3.7	84.1
644.2	CARBONDALE		UNDERCLAY	2.2	87.8

MAPID: 05785175000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121227

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652271

DATE COLLECTED: 6 / 12 / 1975

SURFACE ELEVATION (FT.): 727.6 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22899

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.6	PLEISTOCENE		CLAY	18.0	0.0	YELLOW
709.6	PLEISTOCENE		CLAY	11.1	18.0	GRAY
698.5	PLEISTOCENE		BOULDER	3.9	29.1	
694.6	PLEISTOCENE		UNCONSOLIDATED	29.0	33.0	
665.6	CARBONDALE		GRAY SHALE	9.7	62.0	
655.9	CARBONDALE		DARK SHALE	3.6	71.7	
652.3	CARBONDALE	ST. DAVID	LIMESTONE	0.5	75.3	
651.8	CARBONDALE	TURNER MINE	DARK SHALE	1.9	75.8	
649.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	77.7	
648.4	CARBONDALE	SPRINGFIELD	COAL	3.8	79.2	
644.6	CARBONDALE		UNDERCLAY	2.0	83.0	

MAPID: 05785176000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121398

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645519

DATE COLLECTED: 6 / 11 / 1975

SURFACE ELEVATION (FT.): 744.6 LOGGED (FT.): 117.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22941

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
744.6	PLEISTOCENE		CLAY & GRAVEL	17.7	0.0
726.9	PLEISTOCENE		CLAY, SAND & GRAVEL	7.3	17.7
719.6	CARBONDALE		SANDSTONE	5.5	25.0
714.1	CARBONDALE		GRAY SHALE	12.0	30.5
702.1	CARBONDALE	BRERETON	LIMESTONE	3.0	42.5
699.1	CARBONDALE	HERRIN	COAL	1.3	45.5
697.8	CARBONDALE		UNDERCLAY	1.8	46.8
696.0	CARBONDALE		LIMESTONE	2.4	48.6
693.6	CARBONDALE		SANDSTONE	9.0	51.0
684.6	CARBONDALE		SHALE & SANDSTONE	18.8	60.0
665.8	CARBONDALE		SANDSTONE	16.0	78.8
649.8	CARBONDALE		DARK SHALE	1.2	94.8
648.6	CARBONDALE		LIMESTONE	0.4	96.0
648.2	CARBONDALE		DARK SHALE	8.1	96.4
640.1	CARBONDALE		LIMESTONE	0.4	104.5
639.7	CARBONDALE		DARK SHALE	3.1	104.9
636.6	CARBONDALE	ST. DAVID	LIMESTONE	1.0	108.0
635.6	CARBONDALE	TURNER MINE	DARK SHALE	0.8	109.0
634.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	109.8
633.6	CARBONDALE	SPRINGFIELD	COAL	3.6	111.0
630.0	CARBONDALE		UNDERCLAY	2.4	114.6

MAPID: 05785183000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121276

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650889

DATE COLLECTED: 6 / 12 / 1975

SURFACE ELEVATION (FT.): 725.7 LOGGED (FT.): 84.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23200

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.7	PLEISTOCENE		CLAY	18.5	0.0	
707.2	PLEISTOCENE		UNCONSOLIDATED	39.5	18.5	
667.7	CARBONDALE		GRAY SHALE	12.4	58.0	
655.3	CARBONDALE		DARK SHALE	4.1	70.4	
651.2	CARBONDALE	ST. DAVID	LIMESTONE	0.7	74.5	
650.5	CARBONDALE	TURNER MINE	DARK SHALE	1.6	75.2	
648.9	CARBONDALE	TURNER MINE	DARK SHALE	1.4	76.8	
647.5	CARBONDALE	SPRINGFIELD	COAL	3.8	78.2	
643.7	CARBONDALE		UNDERCLAY	2.0	82.0	

MAPID: 05785184000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121372

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64899

DATE COLLECTED: 6 / 12 / 1975

SURFACE ELEVATION (FT.): 723.4 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23201

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.4	PLEISTOCENE		CLAY	13.5	0.0	YELLOW
709.9	PLEISTOCENE		CLAY	20.1	13.5	GRAY
689.8	PLEISTOCENE		BOULDER	1.4	33.6	
688.4	PLEISTOCENE		CLAY	7.6	35.0	
680.8	CARBONDALE		GRAY SHALE	34.9	42.6	
645.9	CARBONDALE		DARK SHALE	3.9	77.5	
642.0	CARBONDALE	ST. DAVID	LIMESTONE	0.6	81.4	
641.4	CARBONDALE	TURNER MINE	DARK SHALE	1.3	82.0	
640.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	83.3	
639.0	CARBONDALE	SPRINGFIELD	COAL	3.8	84.4	
635.2	CARBONDALE		UNDERCLAY	1.8	88.2	

MAPID: 05785187000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120852

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655294

DATE COLLECTED: 7 / 14 / 1975

SURFACE ELEVATION (FT.): 730.3 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23247

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
730.3	PLEISTOCENE		CLAY	27.0	0.0
703.3	PLEISTOCENE		UNCONSOLIDATED	49.8	27.0
653.5	CARBONDALE	TURNER MINE	DARK SHALE	1.4	76.8
652.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	78.2
650.9	CARBONDALE	SPRINGFIELD	COAL	3.8	79.4
647.1	CARBONDALE		UNDERCLAY	1.8	83.2

MAPID: 05785221000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121016

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640825

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 79.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT15

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
746.0	PLEISTOCENE		UNCONSOLIDATED	24.0	0.0
722.0			UNKNOWN	53.1	24.0
668.9	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.1	77.1
667.8	CARBONDALE	HERRIN	COAL	1.6	78.2 SOFT

MAPID: 05785229000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.126089

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.643903

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.8 LOGGED (FT.): 71.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1534

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
745.8			UNKNOWN	68.9	0.0
676.9	CARBONDALE	HERRIN	COAL	1.4	68.9
675.5	CARBONDALE	HERRIN	COAL	0.2	70.3 DIRTY BROKEN
675.3	CARBONDALE	HERRIN	COAL	1.4	70.5

MAPID: 05785230000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.124053

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644244

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 71.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1536

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0			UNKNOWN	68.5	0.0	
678.5	CARBONDALE	HERRIN	COAL	3.0	68.5	

MAPID: 05785231000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123346

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644563

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.4 LOGGED (FT.): 70.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1562

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.4			UNKNOWN	69.3	0.0	
677.1	CARBONDALE	HERRIN	COAL	1.5	69.3	

MAPID: 05785232000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122546

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64503

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.3 LOGGED (FT.): 52.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1560

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.3			UNKNOWN	48.7	0.0	
698.6	CARBONDALE	HERRIN	COAL	2.4	48.7	
696.2	CARBONDALE	HERRIN	COAL	0.4	51.1	DIRTY BROKEN
695.8	CARBONDALE	HERRIN	COAL	0.7	51.5	

MAPID: 05785233000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123176

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64543

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.2 LOGGED (FT.): 54.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1537

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.2			UNKNOWN	51.1	0.0	
696.1	CARBONDALE	HERRIN	COAL	2.4	51.1	DIRTY BROKEN
693.7	CARBONDALE	HERRIN	COAL	0.2	53.5	DIRTY BROKEN
693.5	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.8	53.7	

MAPID: 05785234000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122321

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645409

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.6 LOGGED (FT.): 48.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1538

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.6			UNKNOWN	47.6	0.0	
700.0	CARBONDALE	HERRIN	COAL	1.1	47.6	

MAPID: 05785238000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122658

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645477

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.6 LOGGED (FT.): 50.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2066

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.6			UNKNOWN	46.8	0.0	
700.8	CARBONDALE	HERRIN	COAL	3.5	46.8	

MAPID: 05785239000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122449

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645525

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.3 LOGGED (FT.): 48.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2067

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.3			UNKNOWN	45.9	0.0	
701.4	CARBONDALE		CLAYSTONE	1.9	45.9	WHITE TOP
699.5	CARBONDALE	HERRIN	COAL	1.1	47.8	

MAPID: 05785240000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122239

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645589

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.2 LOGGED (FT.): 47.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2068

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.2			UNKNOWN	43.5	0.0	
703.7	CARBONDALE		CLAYSTONE	1.3	43.5	WHITE TOP
702.4	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.9	44.8	WHITE TOP
701.5	CARBONDALE	HERRIN	BLUE BAND	0.2	45.7	
701.3	CARBONDALE	HERRIN	COAL	1.5	45.9	

MAPID: 05785241000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122135

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645714

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 48.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2069

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0			UNKNOWN	45.2	0.0	
701.8	CARBONDALE		CLAYSTONE	2.1	45.2	WHITE TOP
699.7	CARBONDALE	HERRIN	COAL	0.5	47.3	
699.2	CARBONDALE	HERRIN	COAL	0.2	47.8	
699.0	CARBONDALE	HERRIN	COAL	0.7	48.0	

MAPID: 05785242000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122093

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645855

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 48.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2070

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0			UNKNOWN	45.1	0.0	
701.9	CARBONDALE		CLAYSTONE	0.9	45.1	WHITE TOP
701.0	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.6	46.0	
700.4	CARBONDALE	HERRIN	COAL	0.7	46.6	
699.7	CARBONDALE	HERRIN	BLUE BAND	0.2	47.3	
699.5	CARBONDALE	HERRIN	COAL	1.0	47.5	

MAPID: 05785243000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122026

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645993

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 49.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2071

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0			UNKNOWN	46.1	0.0	
700.9	CARBONDALE		CLAYSTONE	1.8	46.1	WHITE TOP
699.1	CARBONDALE	HERRIN	COAL	0.4	47.9	
698.7	CARBONDALE	HERRIN	BLUE BAND	0.2	48.3	
698.5	CARBONDALE	HERRIN	COAL	0.8	48.5	

MAPID: 05785244000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122128

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646139

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.9 LOGGED (FT.): 49.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2072

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.9			UNKNOWN	46.6	0.0	
700.3	CARBONDALE		CLAYSTONE	1.3	46.6	WHITE TOP
699.0	CARBONDALE		COAL	1.2	47.9	

MAPID: 05785245000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122384 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646022 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.3 LOGGED (FT.): 48.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2073 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.3			UNKNOWN	45.5	0.0	
701.8	CARBONDALE	HERRIN	COAL	0.8	45.5	
701.0	CARBONDALE	HERRIN	SHALE	0.3	46.3	
700.7	CARBONDALE	HERRIN	COAL	1.5	46.6	

MAPID: 05785246000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122785 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64627 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.8 LOGGED (FT.): 53.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2074 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.8			UNKNOWN	53.5	0.0	NO COAL

MAPID: 05785247000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122906 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646057 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.9 LOGGED (FT.): 48.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2075 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.9			UNKNOWN	44.4	0.0	
703.5	CARBONDALE		CLAYSTONE	1.0	44.4	
702.5	CARBONDALE	HERRIN	COAL	2.6	45.4	

MAPID: 05785248000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122646

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646122

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.7 LOGGED (FT.): 53.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2076

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.7			UNKNOWN	53.4	0.0	NO COAL

MAPID: 05785249000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122536

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645999

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.6 LOGGED (FT.): 47.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2077

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.6			UNKNOWN	46.4	0.0	
701.2	CARBONDALE		CLAYSTONE	1.2	46.4	& BLACK SHALE

MAPID: 05785251000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122488

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645853

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 47.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2078

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0			UNKNOWN	44.0	0.0	
703.0	CARBONDALE	HERRIN	COAL	2.6	44.0	
700.4	CARBONDALE	HERRIN	BLUE BAND	0.2	46.6	
700.2	CARBONDALE	HERRIN	COAL	1.1	46.8	

MAPID: 05785252000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139352 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.664235 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.6 LOGGED (FT.): 47.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2079 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.6			UNKNOWN	43.6	0.0	
704.0	CARBONDALE	HERRIN	COAL	1.0	43.6	& BLACK SHALE?
703.0	CARBONDALE	HERRIN	COAL	2.4	44.6	SOFT

MAPID: 05785253000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139546 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660583 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 46.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2080 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0			UNKNOWN	42.9	0.0	
704.1	CARBONDALE	HERRIN	COAL	3.6	42.9	& BLACK SHALE?

MAPID: 05785254000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122246 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646284 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.9 LOGGED (FT.): 48.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2081 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.9			UNKNOWN	44.0	0.0	
702.9	CARBONDALE		CLAYSTONE	1.7	44.0	WHITE TOP
701.2	CARBONDALE	HERRIN	COAL	0.7	45.7	
700.5	CARBONDALE	HERRIN	BLUE BAND	0.2	46.4	
700.3	CARBONDALE	HERRIN	COAL	1.7	46.6	

MAPID: 05785255000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122124

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646434

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.1 LOGGED (FT.): 49.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2082

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.1			UNKNOWN	45.4	0.0	
701.7	CARBONDALE	HERRIN	CLAY & COAL	2.2	45.4	WHITE TOP
699.5	CARBONDALE	HERRIN	COAL	1.4	47.6	

MAPID: 05785256000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122284

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646494

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.3 LOGGED (FT.): 47.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2083

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.3			UNKNOWN	44.3	0.0	
703.0	CARBONDALE		CLAYSTONE	1.6	44.3	
701.4	CARBONDALE	HERRIN	COAL	1.5	45.9	

MAPID: 05785257000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122364

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646612

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 47.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2084

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0			UNKNOWN	44.8	0.0	
702.2	CARBONDALE		CLAYSTONE	0.2	44.8	WHITE TOP
702.0	CARBONDALE	HERRIN	COAL	2.0	45.0	

MAPID: 05785258000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122556

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646581

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.8 LOGGED (FT.): 53.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2085

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.8			UNKNOWN	53.4	0.0	NO COAL

MAPID: 05785259000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122486

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646896

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.2 LOGGED (FT.): 53.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2086

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.2			UNKNOWN	53.4	0.0	NO COAL

MAPID: 05785260000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122326

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646808

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.6 LOGGED (FT.): 47.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2087

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.6			UNKNOWN	45.4	0.0	
701.2	CARBONDALE		CLAYSTONE	1.3	45.4	WHITE TOP
699.9	CARBONDALE	HERRIN	COAL	0.6	46.7	

MAPID: 05785261000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121879 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646987 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.8 LOGGED (FT.): 50.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2088 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.8			UNKNOWN	47.8	0.0	
699.0	CARBONDALE		CLAYSTONE	1.5	47.8	WHITE TOP
697.5	CARBONDALE	HERRIN	COAL	1.2	49.3	SOFT

MAPID: 05785262000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121978 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647122 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.3 LOGGED (FT.): 49.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2089 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.3			UNKNOWN	48.0	0.0	
698.3	CARBONDALE		CLAYSTONE	0.8	48.0	
697.5	CARBONDALE	HERRIN	COAL	1.0	48.8	BROKEN

MAPID: 05785263000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121449 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647144 DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.9 LOGGED (FT.): 48.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2090 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.9			UNKNOWN	47.2	0.0	
698.7	CARBONDALE		CLAYSTONE	1.2	47.2	WHITE TOP
697.5	CARBONDALE	HERRIN	COAL	0.4	48.4	SOFT

MAPID: 05785264000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121377

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647605

DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.5 LOGGED (FT.): 47.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2093

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.5			UNKNOWN	45.5	0.0	
699.0	CARBONDALE	HERRIN	COAL	2.2	45.5	BROKEN

MAPID: 05785265000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123162

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645838

DATE COLLECTED:

SURFACE ELEVATION (FT.): 748.2 LOGGED (FT.): 51.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1563

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.2			UNKNOWN	47.2	0.0	
701.0	CARBONDALE	HERRIN	COAL	2.5	47.2	DIRTY
698.5	CARBONDALE	HERRIN	BLUE BAND	0.2	49.7	
698.3	CARBONDALE	HERRIN	COAL	1.1	49.9	

MAPID: 05785266000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12317

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647132

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.1 LOGGED (FT.): 47.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1564

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.1			UNKNOWN	44.9	0.0	
702.2	CARBONDALE	HERRIN	COAL	2.6	44.9	DIRTY

MAPID: 05785267000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122698

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646657

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.9 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1566

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.9			UNKNOWN	75.0	0.0	NO COAL

MAPID: 05785268000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123666

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647557

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.9 LOGGED (FT.): 47.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1567

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.9			UNKNOWN	45.9	0.0	
700.0	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.2	45.9	

MAPID: 05785269000C VERSION: 1

PROJECT: NCRS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121846

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647373

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.4 LOGGED (FT.): 64.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1568

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.4			UNKNOWN	64.0	0.0	FIRECLAY AT 49.8

MAPID: 05785270000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121827 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646102 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.2 LOGGED (FT.): 72.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1569 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.2			UNKNOWN	72.7	0.0	NO COAL

MAPID: 05785271000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.124169 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647519 DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.5 LOGGED (FT.): 46.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1585 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.5			UNKNOWN	43.7	0.0	
700.8	CARBONDALE	HERRIN	COAL/CLAYSTONE	2.5	43.7	

MAPID: 05785273000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.125601 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648024 DATE COLLECTED:

SURFACE ELEVATION (FT.): 741.0 LOGGED (FT.): 43.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 14 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.0			UNKNOWN	39.6	0.0	
701.4	CARBONDALE	HERRIN	COAL	4.3	39.6	

MAPID: 05785274000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121314

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646664

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 48.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT30

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.0			UNKNOWN	45.9	0.0	
699.1	CARBONDALE	HERRIN	COAL	2.2	45.9	

MAPID: 05785276000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121121

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648083

DATE COLLECTED:

SURFACE ELEVATION (FT.): 742.4 LOGGED (FT.): 69.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1965

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.4			UNKNOWN	69.0	0.0	NO COAL

MAPID: 05785277000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121064

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64778

DATE COLLECTED:

SURFACE ELEVATION (FT.): 742.5 LOGGED (FT.): 59.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1966

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.5			UNKNOWN	59.0	0.0	NO COAL

MAPID: 05785278000C VERSION: 1

PROJECT: NCRS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12109 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64754 DATE COLLECTED:

SURFACE ELEVATION (FT.): 741.1 LOGGED (FT.): 59.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1967 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.1			UNKNOWN	59.0	0.0	NO COAL

MAPID: 05785279000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120927 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6475 DATE COLLECTED:

SURFACE ELEVATION (FT.): 736.8 LOGGED (FT.): 59.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1968 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.8			UNKNOWN	59.0	0.0	NO COAL

MAPID: 05785283000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120939 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648402 DATE COLLECTED:

SURFACE ELEVATION (FT.): 733.8 LOGGED (FT.): 35.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1972 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.8			UNKNOWN	34.5	0.0	
699.3	CARBONDALE	HERRIN	COAL	1.1	34.5	

MAPID: 05785287000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.120996 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.649088 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 724.3 **LOGGED (FT.):** 28.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1980 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.3			UNKNOWN	28.0	0.0	NO COAL

MAPID: 05785288000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.121284 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.648494 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 737.0 **LOGGED (FT.):** 105.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST TT31 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.0			UNKNOWN	105.0	0.0	NO COAL

MAPID: 05785291000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.120875 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.649337 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 734.9 **LOGGED (FT.):** 49.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1981 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.9			UNKNOWN	49.0	0.0	NO COAL

MAPID: 05785312000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121115

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651491

DATE COLLECTED:

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 87.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT18

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.0			UNKNOWN	83.2	0.0	
646.8	CARBONDALE	SPRINGFIELD	COAL	4.3	83.2	

MAPID: 05785314000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.125579

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651652

DATE COLLECTED:

SURFACE ELEVATION (FT.): 666.0 LOGGED (FT.): 10.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 114

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.0			UNKNOWN	7.0	0.0	
659.0	CARBONDALE	SPRINGFIELD	COAL	3.0	7.0	VERY SOFT

MAPID: 05785316000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121191

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653466

DATE COLLECTED:

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 85.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 139

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.0			UNKNOWN	85.2	0.0	NO COAL

MAPID: 05785320000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120876 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651448 DATE COLLECTED:

SURFACE ELEVATION (FT.): 734.8 LOGGED (FT.): 39.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2023 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.8			UNKNOWN	39.0	0.0	NO COAL

MAPID: 05785326000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120886 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65259 DATE COLLECTED:

SURFACE ELEVATION (FT.): 732.5 LOGGED (FT.): 49.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2029 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.5			UNKNOWN	49.0	0.0	NO COAL

MAPID: 05785336000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123235 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647957 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.7 LOGGED (FT.): 52.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2051 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.7			UNKNOWN	50.0	0.0	
696.7	CARBONDALE		CLAYSTONE	1.3	50.0	WHITE TOP
695.4	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.7	51.3	WHITE TOP

MAPID: 05785337000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123347 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647564 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.6 LOGGED (FT.): 48.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2052 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.6			UNKNOWN	45.9	0.0	
700.7	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.1	45.9	WHITE TOP
699.6	CARBONDALE	HERRIN	COAL	0.6	47.0	
699.0	CARBONDALE	HERRIN	COAL	1.0	47.6	

MAPID: 05785338000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122985 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647569 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.6 LOGGED (FT.): 48.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2053 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.6			UNKNOWN	45.9	0.0	
700.7	CARBONDALE		CLAYSTONE	1.8	45.9	WHITE TOP
698.9	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.8	47.7	

MAPID: 05785339000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122841 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647661 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.2 LOGGED (FT.): 48.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2054 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.2			UNKNOWN	47.0	0.0	
699.2	CARBONDALE		CLAYSTONE	0.3	47.0	WHITE TOP
698.9	CARBONDALE	HERRIN	COAL	0.8	47.3	SOFT

MAPID: 05785340000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122196

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64799

DATE COLLECTED:

SURFACE ELEVATION (FT.): 743.1 LOGGED (FT.): 53.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2055

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.1			UNKNOWN	53.0	0.0	NO COAL

MAPID: 05785341000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122748

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647796

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.1 LOGGED (FT.): 48.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2056

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.1			UNKNOWN	47.9	0.0	
698.2	CARBONDALE	HERRIN	CLAY & COAL	0.8	47.9	

MAPID: 05785342000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122846

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647445

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.7 LOGGED (FT.): 47.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2057

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.7			UNKNOWN	46.2	0.0	
700.5	CARBONDALE		CLAYSTONE	0.7	46.2	WHITE TOP
699.8	CARBONDALE	HERRIN	COAL	0.8	46.9	SOFT

MAPID: 05785343000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122938

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647213

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.3 LOGGED (FT.): 44.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2058

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.3			UNKNOWN	42.3	0.0	
704.0	CARBONDALE	HERRIN	COAL	2.0	42.3	VERY SOFT

MAPID: 05785344000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123231

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64711

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.7 LOGGED (FT.): 45.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2059

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.7			UNKNOWN	43.0	0.0	
703.7	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.3	43.0	WHITE TOP
703.4	CARBONDALE	HERRIN	COAL	2.4	43.3	

MAPID: 05785345000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123107

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646655

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.8 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2060

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.8			UNKNOWN	43.2	0.0	
703.6	CARBONDALE	HERRIN	COAL	1.8	43.2	BROKEN

MAPID: 05785346000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123289 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646698 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.1 LOGGED (FT.): 46.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2061 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.1			UNKNOWN	42.8	0.0	
704.3	CARBONDALE		CLAYSTONE	0.9	42.8	WHITE TOP
703.4	CARBONDALE	HERRIN	COAL	2.6	43.7	

MAPID: 05785347000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123147 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646282 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.8 LOGGED (FT.): 46.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2062 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.8			UNKNOWN	43.2	0.0	
704.6	CARBONDALE	HERRIN	COAL	3.7	43.2	

MAPID: 05785348000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122941 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64627 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.8 LOGGED (FT.): 46.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2063 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.8			UNKNOWN	43.2	0.0	
704.6	CARBONDALE	HERRIN	COAL	3.5	43.2	VERY SOFT & BROKEN

MAPID: 05785349000C VERSION: 1

PROJECT: NCRD00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122847 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645878 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.7 LOGGED (FT.): 46.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2064 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.7			UNKNOWN	43.9	0.0	
702.8	CARBONDALE	HERRIN	COAL	1.2	43.9	
701.6	CARBONDALE	HERRIN	SHALE	0.2	45.1	
701.4	CARBONDALE	HERRIN	COAL	1.1	45.3	

MAPID: 05785350000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122608 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645913 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.7 LOGGED (FT.): 46.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2065 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.7			UNKNOWN	45.6	0.0	
702.1	CARBONDALE	HERRIN	CLAY & COAL	1.3	45.6	BROKEN

MAPID: 05785377000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123194 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651425 DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.0 LOGGED (FT.): 63.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2158 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.0			UNKNOWN	59.6	0.0	
658.4	CARBONDALE	SPRINGFIELD	COAL	3.7	59.6	

MAPID: 05785378000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123159 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655265 DATE COLLECTED:

SURFACE ELEVATION (FT.): 726.0 LOGGED (FT.): 81.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2159 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.0			UNKNOWN	78.5	0.0	
647.5	CARBONDALE	SPRINGFIELD	COAL	3.4	78.5	

MAPID: 05785380000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.125536 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655247 DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.0 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2161 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.0			UNKNOWN	71.2	0.0	
645.8	CARBONDALE	SPRINGFIELD	COAL	3.8	71.2	

MAPID: 05785382000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121352 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651663 DATE COLLECTED:

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 84.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2163 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.0			UNKNOWN	79.9	0.0	
645.1	CARBONDALE	SPRINGFIELD	COAL	4.2	79.9	

MAPID: 05785383000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.121879 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.649867 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 700.0 **LOGGED (FT.):** 65.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2165 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.0			UNKNOWN	61.0	0.0	
639.0	CARBONDALE	SPRINGFIELD	COAL	4.0	61.0	

MAPID: 05785384000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.125592 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.649829 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 731.0 **LOGGED (FT.):** 29.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2203 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.0			UNKNOWN	29.0	0.0	NO COAL

MAPID: 05785385000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.125987 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653463 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 662.0 **LOGGED (FT.):** 18.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2204 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0			UNKNOWN	13.8	0.0	
648.2	CARBONDALE	SPRINGFIELD	COAL	4.4	13.8	

MAPID: 05785391000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121153 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653298 DATE COLLECTED:

SURFACE ELEVATION (FT.): 731.0 LOGGED (FT.): 91.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT17 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.0			UNKNOWN	87.0	0.0	
644.0	CARBONDALE	SPRINGFIELD	COAL	4.2	87.0	

MAPID: 05785398000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133921 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6516 DATE COLLECTED: 4 / 6 / 1937

SURFACE ELEVATION (FT.): 723.0 LOGGED (FT.): 40.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 10 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.0	PLEISTOCENE		CLAY	23.9	0.0	
699.1	PLEISTOCENE		SANDY CLAY	2.9	23.9	
696.2	PLEISTOCENE		CLAY, SAND & GRAVEL	6.2	26.8	
690.0	PLEISTOCENE		CLAY	1.5	33.0	BLACK
688.5	PLEISTOCENE		CLAY	1.8	34.5	GREEN
686.8	CARBONDALE	HERRIN	COAL	1.3	36.2	VERY SOFT; TOP ERODED
685.4	CARBONDALE		CLAYSTONE	3.3	37.6	SOFT

MAPID: 05785399000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130515

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640787

DATE COLLECTED: 4 / 24 / 1937

SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 59.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 55

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.0	PLEISTOCENE		CLAY	12.4	0.0	
724.6	PLEISTOCENE		CLAY	2.8	12.4	SOFT
721.8	PLEISTOCENE		UNCLASSIFIED	1.0	15.2	VERY SOFT COAL
720.9	PLEISTOCENE		CLAY	5.4	16.1	SOFT
715.5	PLEISTOCENE		CLAY	7.9	21.5	HARD
707.6	CARBONDALE		GRAY SHALE	4.6	29.4	
703.0	CARBONDALE		SANDSTONE	4.1	34.0	SOFT
699.0	CARBONDALE		SANDY SHALE	14.3	38.0	
684.6	CARBONDALE		CLAYSTONE	1.2	52.4	DARK
683.4	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.4	53.6	BONE COAL
682.0	CARBONDALE	HERRIN	COAL	2.3	55.0	
679.8	CARBONDALE	HERRIN	CLAYSTONE	0.2	57.2	
679.6	CARBONDALE	HERRIN	COAL	1.4	57.4	SOFT
678.2	CARBONDALE		UNDERCLAY	1.0	58.8	

MAPID: 05785400000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137205

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651047

DATE COLLECTED: 4 / 5 / 1937

SURFACE ELEVATION (FT.): 720.0 LOGGED (FT.): 49.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 8

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.0	CARBONDALE		CLAY	19.1	0.0	
700.9	CARBONDALE		CLAY & GRAVEL	11.2	19.1	
689.7	CARBONDALE		GRAY SHALE	3.2	30.3	
686.5	CARBONDALE	HERRIN	COAL	0.9	33.5	VERY SOFT
685.6	CARBONDALE		CLAYSTONE	2.1	34.4	
683.6	CARBONDALE		GRAY SHALE	12.6	36.4	

MAPID: 05785401000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.128155 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642537 DATE COLLECTED: 9 / 28 / 1945

SURFACE ELEVATION (FT.): 742.0 LOGGED (FT.): 63.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 81 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.0	PLEISTOCENE		SOIL	12.0	0.0	
730.0	PLEISTOCENE		CLAY	6.7	12.0	
723.3	PLEISTOCENE		BOULDER	1.1	18.7	
722.2	PLEISTOCENE		CLAY	13.2	19.8	
709.0	CARBONDALE		GRAY SANDSTONE	7.0	33.0	
702.0	CARBONDALE		UNKNOWN	4.0	40.0	
698.0	CARBONDALE		GRAY SHALE	8.0	44.0	
690.0	CARBONDALE		DARK SHALE	3.7	52.0	
686.3	CARBONDALE	HERRIN	COAL	4.2	55.7	
682.1	CARBONDALE		UNDERCLAY	3.4	59.9	

MAPID: 05785402000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132938 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640713 DATE COLLECTED: 10 / 15 / 1945

SURFACE ELEVATION (FT.): 736.0 LOGGED (FT.): 56.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 86 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.0	PLEISTOCENE		SOIL	8.0	0.0	
728.0	PLEISTOCENE		CLAY	2.3	8.0	
725.7	CARBONDALE	DANVILLE	COAL	1.1	10.3	TOP ERODED
724.6	CARBONDALE		GRAY SHALE	8.6	11.4	
716.0	CARBONDALE		SANDSTONE	2.0	20.0	
714.0	CARBONDALE		GRAY SHALE	3.0	22.0	
711.0	CARBONDALE		SANDSTONE	5.5	25.0	
705.5	CARBONDALE		GRAY SHALE	15.5	30.5	
690.0	CARBONDALE		DARK SHALE	4.5	46.0	
685.5	CARBONDALE	HERRIN	COAL	4.5	50.5	HARD
681.0	CARBONDALE		UNDERCLAY	1.2	55.0	

MAPID: 05785403000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.128045

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64792

DATE COLLECTED: 10 / 8 / 1945

SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 53.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 91

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.0	PLEISTOCENE		SOIL	1.0	0.0	
736.0	PLEISTOCENE		SANDY CLAY	22.6	1.0	YELLOW
713.4	PLEISTOCENE		SANDY CLAY	2.0	23.6	GRAY
711.4	PLEISTOCENE		SANDY CLAY	6.4	25.6	YELLOW
705.0	CARBONDALE		MICACEOUS SHALE	3.6	32.0	
701.4	CARBONDALE		GRAY SHALE	7.4	35.6	
694.0	CARBONDALE	BRERETON	LIMESTONE	1.6	43.0	
692.4	CARBONDALE	ANNA	DARK SHALE	2.3	44.6	
690.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	4.0	46.9	
686.1	CARBONDALE		UNDERCLAY	2.1	50.9	

MAPID: 05785404000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.128015

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64983

DATE COLLECTED: 11 / 17 / 1945

SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 43.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 143

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.0	PLEISTOCENE		SOIL	1.0	0.0	
734.0	PLEISTOCENE		SANDY CLAY	24.6	1.0	YELLOW
709.4	PLEISTOCENE		SANDY CLAY	3.4	25.6	GRAY
706.0	CARBONDALE		MICACEOUS SHALE	3.2	29.0	
702.8	CARBONDALE	BRERETON	LIMESTONE	3.8	32.2	
699.0	CARBONDALE	ANNA	DARK SHALE	1.2	36.0	
697.8	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	4.0	37.2	
693.8	CARBONDALE		UNDERCLAY	2.6	41.2	

MAPID: 05785405000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.12797 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651607 DATE COLLECTED: 11 / 19 / 1945

SURFACE ELEVATION (FT.): 726.0 LOGGED (FT.): 75.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 145 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.0	PLEISTOCENE		SOIL	1.0	0.0	
725.0	PLEISTOCENE		SANDY CLAY	21.8	1.0	
703.2			UNKNOWN	1.4	22.8	
701.8	CARBONDALE	HERRIN	COAL	2.0	24.2	BROKEN
699.8	CARBONDALE		MICACEOUS SHALE	10.8	26.2	
689.0	CARBONDALE		DARK SHALE	2.8	37.0	
686.2	CARBONDALE		GRAY SHALE	20.2	39.8	
666.0	CARBONDALE		DARK SHALE	15.3	60.0	

MAPID: 05785406000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130379 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648896 DATE COLLECTED: 2 / 19 / 1946

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 41.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 224 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.0	PLEISTOCENE		SOIL	1.0	0.0	
729.0	PLEISTOCENE		CLAY	20.3	1.0	
708.7	CARBONDALE		SANDSTONE	3.4	21.3	
705.3	CARBONDALE		GRAY SHALE	11.6	24.7	
693.7	CARBONDALE	HERRIN	COAL	1.5	36.3	SOFT
692.2	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	37.8	
690.7	CARBONDALE	HERRIN	BLUE BAND	0.2	39.3	
690.5	CARBONDALE	HERRIN	COAL	0.9	39.5	
689.6	CARBONDALE		UNDERCLAY	0.9	40.4	

MAPID: 05785407000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134693

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662342

DATE COLLECTED: 2 / 20 / 1946

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 55.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 226

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.0	PLEISTOCENE		SOIL	1.0	0.0	
724.0	PLEISTOCENE		CLAY	21.3	1.0	YELLOW
702.7	PLEISTOCENE		CLAY	2.7	22.3	GRAY
700.0	PLEISTOCENE		BOULDER	1.0	25.0	
699.0	PLEISTOCENE		CLAY	11.8	26.0	
687.2	CARBONDALE		GRAY SANDSTONE	12.5	37.8	
674.7	CARBONDALE		GRAY SHALE	5.0	50.3	

MAPID: 05785408000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.126881

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649841

DATE COLLECTED: 2 / 18 / 1946

SURFACE ELEVATION (FT.): 721.0 LOGGED (FT.): 38.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 259

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.0	PLEISTOCENE		SOIL	1.0	0.0	
720.0	PLEISTOCENE		SANDY CLAY	20.6	1.0	& BOULDERS
699.4	PLEISTOCENE		CLAY	5.4	21.6	& BOULDERS
694.0	CARBONDALE		GRAY SHALE	4.0	27.0	
690.0	CARBONDALE		DARK SHALE	1.6	31.0	
688.4	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	32.6	
686.8	CARBONDALE	HERRIN	SHALE	0.5	34.2	
686.3	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.8	34.7	
684.5	CARBONDALE		UNDERCLAY	1.5	36.5	

MAPID: 05785409000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.128085

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650743

DATE COLLECTED: 2 / 19 / 1946

SURFACE ELEVATION (FT.): 736.0 LOGGED (FT.): 32.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 261

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.0	PLEISTOCENE		SOIL	1.0	0.0	
735.0	PLEISTOCENE		SANDY CLAY	23.0	1.0	
712.0	PLEISTOCENE		CLAY	3.0	24.0	
709.0			UNKNOWN	1.0	27.0	
708.0	CARBONDALE	HERRIN	COAL	1.2	28.0	SOFT BROKEN
706.8	CARBONDALE	HERRIN	SHALE	0.4	29.2	
706.4	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.9	29.6	
704.5	CARBONDALE		UNDERCLAY	1.4	31.5	

MAPID: 05785410000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131661

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649598

DATE COLLECTED: 7 / 22 / 1954

SURFACE ELEVATION (FT.): 730.4 LOGGED (FT.): 45.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 284

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.4	PLEISTOCENE		SOIL	1.0	0.0	
729.4	PLEISTOCENE		SANDY CLAY	20.4	1.0	YELLOW
709.0	PLEISTOCENE		SANDY CLAY	24.3	21.4	GREEN

MAPID: 05785411000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132444

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650148

DATE COLLECTED: 7 / 29 / 1954

SURFACE ELEVATION (FT.): 723.5 LOGGED (FT.): 45.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 287

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.5	PLEISTOCENE		SOIL	1.0	0.0	
722.5	PLEISTOCENE		SANDY CLAY	21.7	1.0	YELLOW
700.8	PLEISTOCENE		SANDY CLAY	23.0	22.7	GRAY

MAPID: 05785412000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133495

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65014

DATE COLLECTED: 7 / 29 / 1954

SURFACE ELEVATION (FT.): 729.7 LOGGED (FT.): 45.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 288

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.7	PLEISTOCENE		SOIL	1.0	0.0	
728.7	PLEISTOCENE		SANDY CLAY	20.9	1.0	YELLOW
707.8	PLEISTOCENE		SANDY CLAY	23.8	21.9	GRAY

MAPID: 05785413000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136212

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650931

DATE COLLECTED: 7 / 30 / 1954

SURFACE ELEVATION (FT.): 725.3 LOGGED (FT.): 41.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 294

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.3	PLEISTOCENE		SOIL	1.0	0.0	
724.3	PLEISTOCENE		SANDY CLAY	28.3	1.0	YELLOW
696.0	PLEISTOCENE		SANDY CLAY	8.7	29.3	GRAY
687.3			GRAY SHALE	3.0	38.0	

MAPID: 05785414000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136742

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651502

DATE COLLECTED: 7 / 31 / 1954

SURFACE ELEVATION (FT.): 722.4 LOGGED (FT.): 35.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 295

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.4	PLEISTOCENE		SOIL	1.0	0.0	
721.4	PLEISTOCENE		SANDY CLAY	26.8	1.0	YELLOW
694.6	PLEISTOCENE		SANDY CLAY	7.9	27.8	GRAY LOST WATER

MAPID: 05785415000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136731

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650738

DATE COLLECTED: 7 / 31 / 1954

SURFACE ELEVATION (FT.): 727.2 LOGGED (FT.): 33.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 296

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.2	PLEISTOCENE		SOIL	1.0	0.0	
726.2	PLEISTOCENE		SANDY CLAY	25.8	1.0	
700.4	PLEISTOCENE		CLAY	3.9	26.8	
696.5	CARBONDALE	HERRIN	COAL	1.7	30.7	TOP ERODED
694.8	CARBONDALE		UNDERCLAY	1.0	32.4	

MAPID: 05785416000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136709

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650228

DATE COLLECTED: 7 / 31 / 1954

SURFACE ELEVATION (FT.): 720.0 LOGGED (FT.): 27.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 297

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.0	PLEISTOCENE		SOIL	1.0	0.0	
719.0	PLEISTOCENE		CLAY	21.7	1.0	
697.3	CARBONDALE	HERRIN	COAL	3.7	22.7	SOFT; TOP ERODED
693.6	CARBONDALE		UNDERCLAY	1.0	26.4	

MAPID: 05785417000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.135379

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651043

DATE COLLECTED: 8 / 4 / 1954

SURFACE ELEVATION (FT.): 714.3 LOGGED (FT.): 31.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 311

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.3	PLEISTOCENE		SOIL	1.0	0.0	
713.3	PLEISTOCENE		CLAY	23.9	1.0	YELLOW
689.4	PLEISTOCENE		CLAY	6.8	24.9	GRAY

MAPID: 05785418000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134662 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.650192 DATE COLLECTED: 8 / 5 / 1954
SURFACE ELEVATION (FT.): 730.4 LOGGED (FT.): 41.7 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 315 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.4	PLEISTOCENE		SOIL	1.0	0.0	
729.4	PLEISTOCENE		CLAY	25.8	1.0	YELLOW
703.6	PLEISTOCENE		CLAY	11.1	26.8	GRAY
692.5	CARBONDALE	HERRIN	COAL	2.7	37.9	SOFT; TOP ERODED
689.8	CARBONDALE		UNDERCLAY	1.1	40.6	

MAPID: 05785419000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134296 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.650224 DATE COLLECTED: 8 / 5 / 1954
SURFACE ELEVATION (FT.): 728.6 LOGGED (FT.): 41.7 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 317 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.6	PLEISTOCENE		SOIL	1.0	0.0	
727.6	PLEISTOCENE		SANDY CLAY	23.7	1.0	YELLOW
703.9	PLEISTOCENE		SANDY CLAY	17.0	24.7	GRAY

MAPID: 05785420000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134088 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.650065 DATE COLLECTED: 8 / 6 / 1954
SURFACE ELEVATION (FT.): 726.0 LOGGED (FT.): 41.7 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 318 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.0	PLEISTOCENE		SOIL	1.0	0.0	
725.0	PLEISTOCENE		CLAY	21.3	1.0	YELLOW
703.7	PLEISTOCENE		CLAY	19.4	22.3	GRAY

MAPID: 05785421000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133779 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649965 DATE COLLECTED: 8 / 9 / 1954

SURFACE ELEVATION (FT.): 731.2 LOGGED (FT.): 40.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 323 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.2	PLEISTOCENE		SOIL	1.0	0.0	
730.2	PLEISTOCENE		SANDY CLAY	21.8	1.0	YELLOW
708.4	PLEISTOCENE		SANDY CLAY	8.9	22.8	GRAY
699.5	CARBONDALE		GRAY SHALE	3.3	31.7	SOFT
696.2	CARBONDALE	ANNA	BLACK SHALE	0.7	35.0	SOFT
695.5	CARBONDALE	HERRIN	COAL	3.8	35.7	
691.7	CARBONDALE		UNDERCLAY	1.0	39.5	

MAPID: 05785422000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133439 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649958 DATE COLLECTED: 8 / 9 / 1954

SURFACE ELEVATION (FT.): 731.3 LOGGED (FT.): 42.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 325 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.3	PLEISTOCENE		SOIL	1.0	0.0	
730.3	PLEISTOCENE		SANDY CLAY	22.7	1.0	YELLOW
707.6	PLEISTOCENE		SANDY CLAY	13.2	23.7	GRAY
694.4	CARBONDALE	HERRIN	COAL	3.4	36.9	SOFT; TOP ERODED
691.0	CARBONDALE		UNDERCLAY	2.4	40.3	

MAPID: 05785423000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133141

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649518

DATE COLLECTED: 8 / 10 / 1954

SURFACE ELEVATION (FT.): 733.7 LOGGED (FT.): 45.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 328

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.7	PLEISTOCENE		SOIL	1.0	0.0	
732.7	PLEISTOCENE		CLAY	23.7	1.0	
709.0	PLEISTOCENE		SANDY CLAY	15.2	24.7	
693.8	PLEISTOCENE		CLAY	4.1	39.9	
689.7	CARBONDALE		GRAY SHALE	1.7	44.0	

MAPID: 05785424000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132896

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649252

DATE COLLECTED: 8 / 11 / 1954

SURFACE ELEVATION (FT.): 732.1 LOGGED (FT.): 42.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 332

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.1	PLEISTOCENE		SOIL	1.0	0.0	
731.1	PLEISTOCENE		CLAY	20.7	1.0	YELLOW
710.4	PLEISTOCENE		CLAY	6.2	21.7	GRAY
704.2	CARBONDALE		GRAY SHALE	8.5	27.9	SOFT
695.7	CARBONDALE	ANNA	BLACK SHALE	1.0	36.4	SOFT
694.7	CARBONDALE	HERRIN	COAL	3.8	37.4	SOFT
690.9	CARBONDALE		UNDERCLAY	1.0	41.2	

MAPID: 05785425000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132861

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648999

DATE COLLECTED: 8 / 11 / 1954

SURFACE ELEVATION (FT.): 730.1 LOGGED (FT.): 40.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 333

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.1	PLEISTOCENE		SOIL	1.0	0.0	
729.1	PLEISTOCENE		CLAY	18.9	1.0	YELLOW
710.2	PLEISTOCENE		CLAY	3.9	19.9	GRAY
706.3	CARBONDALE		GRAY SHALE	10.7	23.8	
695.6	CARBONDALE	BRERETON	LIMESTONE	0.7	34.5	
694.9	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	4.0	35.2	
690.9	CARBONDALE		UNDERCLAY	1.0	39.2	

MAPID: 05785426000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132649

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649196

DATE COLLECTED: 8 / 11 / 1954

SURFACE ELEVATION (FT.): 727.0 LOGGED (FT.): 37.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 334

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.0	PLEISTOCENE		SOIL	1.0	0.0	
726.0	PLEISTOCENE		CLAY	20.0	1.0	
706.0	PLEISTOCENE		SANDY CLAY	10.7	21.0	
695.3	CARBONDALE	ANNA	BLACK SHALE	1.0	31.7	SOFT
694.3	CARBONDALE	HERRIN	COAL	3.7	32.7	SOFT
690.6	CARBONDALE		UNDERCLAY	1.0	36.4	

MAPID: 05785427000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133428

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651578

DATE COLLECTED: 8 / 12 / 1954

SURFACE ELEVATION (FT.): 727.6 LOGGED (FT.): 45.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 337

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.6	PLEISTOCENE		SOIL	1.0	0.0	
726.6	PLEISTOCENE		SANDY CLAY	21.7	1.0	YELLOW
704.9	PLEISTOCENE		SANDY CLAY	23.0	22.7	GRAY

MAPID: 05785428000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131332

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648916

DATE COLLECTED: 8 / 16 / 1954

SURFACE ELEVATION (FT.): 734.3 LOGGED (FT.): 41.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 346

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.3	PLEISTOCENE		SOIL	1.0	0.0	
733.3	PLEISTOCENE		CLAY	20.0	1.0	
713.3	PLEISTOCENE		SANDY CLAY	15.7	21.0	
697.6	CARBONDALE	HERRIN	COAL	3.9	36.7	TOP ERODED
693.7	CARBONDALE		UNDERCLAY	1.0	40.6	

MAPID: 05785429000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131605

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649047

DATE COLLECTED: 8 / 16 / 1954

SURFACE ELEVATION (FT.): 735.8 LOGGED (FT.): 51.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 347

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.8	PLEISTOCENE		SOIL	1.0	0.0	
734.8	PLEISTOCENE		CLAY	21.3	1.0	
713.5	PLEISTOCENE		SANDY CLAY	29.4	22.3	

MAPID: 0578543000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131298

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649153

DATE COLLECTED: 8 / 17 / 1954

SURFACE ELEVATION (FT.): 731.7 LOGGED (FT.): 38.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 348

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.7	PLEISTOCENE		SOIL	1.0	0.0	
730.7	PLEISTOCENE		CLAY	20.7	1.0	
710.0	PLEISTOCENE		SANDY CLAY	13.2	21.7	
696.8	CARBONDALE	HERRIN	COAL	2.7	34.9	SOFT; TOP ERODED
694.1	CARBONDALE		UNDERCLAY	1.0	37.6	

MAPID: 05785431000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130857

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648844

DATE COLLECTED: 8 / 17 / 1954

SURFACE ELEVATION (FT.): 730.6 LOGGED (FT.): 39.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 349

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.6	PLEISTOCENE		SOIL	1.0	0.0	
729.6	PLEISTOCENE		CLAY	11.7	1.0	SNDY
717.9	PLEISTOCENE		BOULDER	1.9	12.7	
716.0	PLEISTOCENE		SANDY CLAY	2.4	14.6	
713.6	CARBONDALE		LIMESTONE	3.4	17.0	
710.2	CARBONDALE		GRAY SHALE	13.6	20.4	
696.6	CARBONDALE	ANNA	BLACK SHALE	0.7	34.0	
695.9	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	3.9	34.7	
692.0	CARBONDALE		UNDERCLAY	1.0	38.6	

MAPID: 05785432000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130663

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648668

DATE COLLECTED: 8 / 20 / 1954

SURFACE ELEVATION (FT.): 734.4 LOGGED (FT.): 41.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 350

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.4	PLEISTOCENE		SOIL	1.0	0.0	
733.4	PLEISTOCENE		CLAY	14.7	1.0	YELLOW
718.7	PLEISTOCENE		CLAY	14.3	15.7	GRAY
704.4	CARBONDALE		GRAY SHALE	5.7	30.0	
698.7	CARBONDALE	ANNA	BLACK SHALE	1.2	35.7	
697.5	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	3.8	36.9	
693.7	CARBONDALE		UNDERCLAY	1.0	40.7	

MAPID: 05785433000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130534

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648401

DATE COLLECTED: 8 / 20 / 1954

SURFACE ELEVATION (FT.): 735.3 LOGGED (FT.): 42.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 351

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.3	PLEISTOCENE		SOIL	1.0	0.0	
734.3	PLEISTOCENE		CLAY	10.7	1.0	
723.6	PLEISTOCENE		SANDY CLAY	18.6	11.7	
705.0	CARBONDALE		GRAY SHALE	4.7	30.3	
700.3	CARBONDALE	BRERETON	LIMESTONE	1.5	35.0	
698.8	CARBONDALE	ANNA	BLACK SHALE	1.3	36.5	
697.5	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	3.9	37.8	
693.6	CARBONDALE		UNDERCLAY	1.0	41.7	

MAPID: 05785434000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129298

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64787

DATE COLLECTED: 9 / 9 / 1969

SURFACE ELEVATION (FT.): 739.9 LOGGED (FT.): 57.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1963

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.9	PLEISTOCENE		SOIL	1.0	0.0	
738.9	PLEISTOCENE		CLAY	18.6	1.0	
720.3	PLEISTOCENE		BOULDER	0.5	19.6	
719.8	PLEISTOCENE		CLAY & GRAVEL	5.5	20.1	
714.3	CARBONDALE		SANDSTONE	5.8	25.6	
708.5	CARBONDALE		SANDY SHALE	2.4	31.4	
706.1	CARBONDALE		GRAY SHALE	12.6	33.8	
693.5	CARBONDALE	BRERETON	LIMESTONE	3.1	46.4	
690.4	CARBONDALE	HERRIN	COAL/CLAYSTONE	3.8	49.5	WHITE TOP
686.6	CARBONDALE		UNDERCLAY	1.7	53.3	
684.9	CARBONDALE		GRAY SHALE	2.6	55.0	

MAPID: 05785467000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.127777 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647941 DATE COLLECTED: 9 / 23 / 1977

SURFACE ELEVATION (FT.): 739.8 LOGGED (FT.): 114.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 27162 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.8	PLEISTOCENE		CLAY	22.0	0.0	YELLOW
717.8	PLEISTOCENE		CLAY	5.5	22.0	GRAY
712.3	CARBONDALE		GRAY SHALE	15.6	27.5	
696.7	CARBONDALE	ANNA	DARK SHALE	0.7	43.1	
696.0	CARBONDALE	HERRIN	COAL	2.1	43.8	
693.9	CARBONDALE	HERRIN	BLUE BAND	0.2	45.9	
693.7	CARBONDALE	HERRIN	COAL	1.9	46.1	
691.8	CARBONDALE		UNDERCLAY	1.6	48.0	
690.2	CARBONDALE		MICACEOUS SHALE	7.6	49.6	
682.6	CARBONDALE		DARK SHALE	44.8	57.2	
637.8	CARBONDALE	ST. DAVID	LIMESTONE	3.0	102.0	
634.8	CARBONDALE	TURNER MINE	DARK SHALE	0.6	105.0	
634.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	105.6	
632.5	CARBONDALE	SPRINGFIELD	COAL	1.3	107.3	
631.2	CARBONDALE		UNDERCLAY	3.5	108.6	
627.7	CARBONDALE		UNDERCLAY	1.9	112.1	

MAPID: 05785468000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131958 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.641311 DATE COLLECTED: 10 / 3 / 1977

SURFACE ELEVATION (FT.): 751.0 LOGGED (FT.): 141.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 27171 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
751.0	PLEISTOCENE		UNCONSOLIDATED	72.4	0.0	
678.6	CARBONDALE		UNDERCLAY	1.6	72.4	
677.0	CARBONDALE		SANDSTONE/SHALE	56.8	74.0	
620.2	CARBONDALE	ST. DAVID	LIMESTONE	0.5	130.8	
619.7	CARBONDALE	TURNER MINE	DARK SHALE	2.1	131.3	
617.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	133.4	
616.4	CARBONDALE	SPRINGFIELD	COAL	3.8	134.6	
612.6	CARBONDALE		UNDERCLAY	2.6	138.4	

MAPID: 0578548000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.127818

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655224

DATE COLLECTED: 11 / 29 / 1945

SURFACE ELEVATION (FT.): 647.0 LOGGED (FT.): 25.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2205

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
647.0	PLEISTOCENE		CLAY	1.0	0.0	
646.0	PLEISTOCENE		SAND/CLAY	11.8	1.0	
634.2	PLEISTOCENE		SAND/CLAY	7.2	12.8	GRAY
627.0	PLEISTOCENE		CLAY, SAND & GRAVEL	5.0	20.0	

MAPID: 05785481000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130393

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65166

DATE COLLECTED: 11 / 19 / 1945

SURFACE ELEVATION (FT.): 685.0 LOGGED (FT.): 43.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2202

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.0	PLEISTOCENE		CLAY	1.0	0.0	LOAM
684.0	PLEISTOCENE		CLAY	9.0	1.0	GRAY
675.0	CARBONDALE		GRAY SHALE	15.0	10.0	HARD
660.0	CARBONDALE		DARK SHALE	12.0	25.0	
648.0	CARBONDALE		SANDSTONE	0.8	37.0	
647.2	CARBONDALE	TURNER MINE	DARK SHALE	1.2	37.8	
646.0	CARBONDALE	SPRINGFIELD	COAL	4.0	39.0	
642.0	CARBONDALE		UNDERCLAY	0.6	43.0	

MAPID: 05785482000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130293

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653404

DATE COLLECTED: 11 / 13 / 1945

SURFACE ELEVATION (FT.): 667.0 LOGGED (FT.): 29.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2201

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.0	PLEISTOCENE		CLAY	1.0	0.0	LOAM
666.0	PLEISTOCENE		CLAY & SHALE	16.2	1.0	
649.8	CARBONDALE		DARK SHALE	4.8	17.2	
645.0	CARBONDALE		SANDSTONE	1.0	22.0	
644.0	CARBONDALE	TURNER MINE	DARK SHALE	1.0	23.0	
643.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	24.0	
642.4	CARBONDALE	SPRINGFIELD	COAL	1.0	24.6	
641.4	CARBONDALE	SPRINGFIELD	SHALE	0.3	25.6	
641.1	CARBONDALE	SPRINGFIELD	COAL	3.1	25.9	
638.0	CARBONDALE		UNDERCLAY	0.6	29.0	

MAPID: 05785483000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133016

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653989

DATE COLLECTED: 11 / 7 / 1945

SURFACE ELEVATION (FT.): 654.0 LOGGED (FT.): 18.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 2148

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.0	PLEISTOCENE		CLAY	1.0	0.0	
653.0	CARBONDALE		GRAY SHALE	7.0	1.0	
646.0	CARBONDALE		DARK SHALE	4.2	8.0	
641.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	12.2	
641.0	CARBONDALE	SPRINGFIELD	COAL	4.4	13.0	WITH PARTING
636.6	CARBONDALE		UNDERCLAY	0.6	17.4	

MAPID: 05785484000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.135479 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.653598 DATE COLLECTED: 11 / 2 / 1945
SURFACE ELEVATION (FT.): 657.0 LOGGED (FT.): 15.6 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 2145 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
657.0	PLEISTOCENE		CLAY	1.0	0.0	
656.0	CARBONDALE		GRAY SHALE	7.0	1.0	
649.0	CARBONDALE	TURNER MINE	DARK SHALE	2.0	8.0	
647.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	10.0	
646.2	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.2	10.8	
642.0	CARBONDALE		UNDERCLAY	0.6	15.0	

MAPID: 05785584000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137356 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.654818 DATE COLLECTED:
SURFACE ELEVATION (FT.): 650.7 LOGGED (FT.): 18.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1740 WELL TYPE: Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.7			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05785585000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136634 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.654756 DATE COLLECTED:
SURFACE ELEVATION (FT.): 647.4 LOGGED (FT.): 18.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1739 WELL TYPE: Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
647.4			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05785587000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.136026 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.654814 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 650.7 **LOGGED (FT.):** 15.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1735 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.7			UNKNOWN	12.5	0.0	
638.2	CARBONDALE	SPRINGFIELD	COAL WITH SHALE	2.7	12.5	SOFT

MAPID: 05785588000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.135499 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.654947 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 649.8 **LOGGED (FT.):** 18.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1733 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.8			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05785604000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.133068 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.654968 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 619.1 **LOGGED (FT.):** 15.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1710 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
619.1			UNKNOWN	15.0	0.0	NO COAL

MAPID: 05785605000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.13257 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.654777 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 646.1 **LOGGED (FT.):** 18.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1706 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.1			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05785608000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.131774 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.654928 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 648.9 **LOGGED (FT.):** 12.6 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1700 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.9			UNKNOWN	9.0	0.0	
639.9	CARBONDALE	SPRINGFIELD	COAL	3.6	9.0	SOFT

MAPID: 05785609000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.131255 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655193 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 678.8 **LOGGED (FT.):** 49.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1698 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.8			UNKNOWN	49.0	0.0	NO COAL

MAPID: 0578561000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.131236 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655104 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 666.2 **LOGGED (FT.):** 39.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1697 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.2			UNKNOWN	39.0	0.0	NO COAL

MAPID: 05785611000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.130751 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655146 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 662.2 **LOGGED (FT.):** 44.3 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1696 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.2			UNKNOWN	44.3	0.0	

MAPID: 05785613000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.130316 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655071 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 650.6 **LOGGED (FT.):** 18.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1694 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.6			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05785614000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.133122 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.654107 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 642.2 **LOGGED (FT.):** 23.8 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1693 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
642.2			UNKNOWN	23.8	0.0	NO COAL

MAPID: 05785615000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.132619 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.654173 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 644.2 **LOGGED (FT.):** 18.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1692 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.2			UNKNOWN	18.0	0.0	

MAPID: 05785616000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.132124 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.6543 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 643.3 **LOGGED (FT.):** 22.8 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1691 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
643.3			UNKNOWN	22.8	0.0	NO COAL

MAPID: 05785617000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.13058 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653858 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 646.5 **LOGGED (FT.):** 18.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1690 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.5			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05785618000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.130391 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653823 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 665.8 **LOGGED (FT.):** 23.6 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1689 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.8			UNKNOWN	19.8	0.0	
646.0	CARBONDALE	SPRINGFIELD	COAL	3.8	19.8	

MAPID: 05785619000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.130656 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653433 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 650.1 **LOGGED (FT.):** 21.5 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1688 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.1			UNKNOWN	21.5	0.0	NO COAL

MAPID: 05785620000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.130457 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653437 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 663.4 **LOGGED (FT.):** 24.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1687 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.4			UNKNOWN	21.0	0.0	
642.4	CARBONDALE	SPRINGFIELD	COAL	3.2	21.0	

MAPID: 05785621000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.130523 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653108 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 657.8 **LOGGED (FT.):** 23.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1685 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
657.8			UNKNOWN	19.5	0.0	
638.3	CARBONDALE	SPRINGFIELD	COAL	4.2	19.5	

MAPID: 05785622000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.13102 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.652862 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 653.6 **LOGGED (FT.):** 22.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1684 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.6			UNKNOWN	20.6	0.0	
633.0	CARBONDALE	SPRINGFIELD	COAL	1.6	20.6	

MAPID: 05785623000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.130683 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.652801 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 655.4 **LOGGED (FT.):** 22.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1683 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.4			UNKNOWN	18.5	0.0	
636.9	CARBONDALE	SPRINGFIELD	COAL	3.5	18.5	

MAPID: 05785624000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.130892 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653084 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 651.1 **LOGGED (FT.):** 38.5 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1682 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.1			UNKNOWN	38.5	0.0	NO COAL

MAPID: 05785625000C **VERSION:** 1 **PROJECT:** NCRD00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.13109 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653328 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 658.1 **LOGGED (FT.):** 28.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1680 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
658.1			UNKNOWN	28.0	0.0	NO COAL

MAPID: 05785626000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.130909 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653373 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 649.2 **LOGGED (FT.):** 18.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1679 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.2			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05785627000C VERSION: 1

PROJECT: NCRD00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131118

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653703

DATE COLLECTED:

SURFACE ELEVATION (FT.): 654.6 LOGGED (FT.): 21.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1677

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.6			UNKNOWN	20.7	0.0	
633.9	CARBONDALE	SPRINGFIELD	COAL	0.8	20.7	SOFT

MAPID: 05785628000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131613

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653886

DATE COLLECTED:

SURFACE ELEVATION (FT.): 654.5 LOGGED (FT.): 20.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1676

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.5			UNKNOWN	16.1	0.0	
638.4	CARBONDALE	SPRINGFIELD	COAL	3.9	16.1	

MAPID: 05785629000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.13087

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653832

DATE COLLECTED:

SURFACE ELEVATION (FT.): 646.8 LOGGED (FT.): 36.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1675

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.8			UNKNOWN	36.0	0.0	NO COAL

MAPID: 05785630000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131465 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654011 DATE COLLECTED:

SURFACE ELEVATION (FT.): 644.2 LOGGED (FT.): 18.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1674 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.2			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05785631000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132132 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654018 DATE COLLECTED:

SURFACE ELEVATION (FT.): 643.3 LOGGED (FT.): 11.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1673 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
643.3			UNKNOWN	7.7	0.0	
635.6	CARBONDALE	SPRINGFIELD	COAL	3.4	7.7	

MAPID: 05785632000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132621 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653982 DATE COLLECTED:

SURFACE ELEVATION (FT.): 643.4 LOGGED (FT.): 10.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1672 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
643.4			UNKNOWN	7.9	0.0	
635.5	CARBONDALE	SPRINGFIELD	COAL	2.4	7.9	

MAPID: 05785634000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.134892 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653976 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 641.7 **LOGGED (FT.):** 26.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1666 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
641.7			UNKNOWN	26.7	0.0	NO COAL

MAPID: 05785635000C **VERSION:** 1 **PROJECT:** NCRD00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.131895 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.652295 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 710.8 **LOGGED (FT.):** 86.8 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1664 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
710.8			UNKNOWN	82.9	0.0	
627.9	CARBONDALE	SPRINGFIELD	COAL	3.9	82.9	

MAPID: 05785636000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.133495 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.651784 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 727.2 **LOGGED (FT.):** 98.5 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1663 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.2			UNKNOWN	95.0	0.0	
632.2	CARBONDALE	SPRINGFIELD	COAL	3.5	95.0	

MAPID: 05785637000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131541 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653127 DATE COLLECTED:

SURFACE ELEVATION (FT.): 705.5 LOGGED (FT.): 76.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1662 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.5			UNKNOWN	72.9	0.0	
632.6	CARBONDALE	SPRINGFIELD	COAL	3.6	72.9	

MAPID: 05785638000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132747 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653176 DATE COLLECTED:

SURFACE ELEVATION (FT.): 712.9 LOGGED (FT.): 87.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1661 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.9			UNKNOWN	83.0	0.0	
629.9	CARBONDALE	SPRINGFIELD	COAL	4.2	83.0	

MAPID: 05785639000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133688 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653428 DATE COLLECTED:

SURFACE ELEVATION (FT.): 708.3 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1660 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
708.3			UNKNOWN	75.9	0.0	
632.4	CARBONDALE	SPRINGFIELD	COAL	4.1	75.9	

MAPID: 05785640000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.134516 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653238 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 699.7 **LOGGED (FT.):** 73.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1659 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
699.7			UNKNOWN	69.7	0.0
630.0	CARBONDALE	SPRINGFIELD	COAL	4.0	69.7

MAPID: 05785641000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.135026 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.652414 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 709.4 **LOGGED (FT.):** 79.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1658 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
709.4			UNKNOWN	75.8	0.0
633.6	CARBONDALE	SPRINGFIELD	COAL	3.2	75.8

MAPID: 05785642000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.135015 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.651594 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 682.8 **LOGGED (FT.):** 53.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1657 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
682.8			UNKNOWN	49.2	0.0
633.6	CARBONDALE	SPRINGFIELD	COAL	3.8	49.2

MAPID: 05785643000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137389 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650964 DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.8 LOGGED (FT.): 78.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1656 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.8			UNKNOWN	74.5	0.0	
643.3	CARBONDALE	SPRINGFIELD	COAL	3.7	74.5	

MAPID: 05785644000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136439 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651623 DATE COLLECTED:

SURFACE ELEVATION (FT.): 714.3 LOGGED (FT.): 83.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1655 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.3			UNKNOWN	79.3	0.0	
635.0	CARBONDALE	SPRINGFIELD	COAL	3.8	79.3	

MAPID: 05785645000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137661 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651812 DATE COLLECTED:

SURFACE ELEVATION (FT.): 709.8 LOGGED (FT.): 76.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1654 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.8			UNKNOWN	73.0	0.0	
636.8	CARBONDALE	SPRINGFIELD	COAL	3.9	73.0	

MAPID: 05785646000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.135835 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.652503 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 655.2 **LOGGED (FT.):** 23.8 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1650 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.2			UNKNOWN	20.1	0.0	
635.1	CARBONDALE	SPRINGFIELD	COAL	3.7	20.1	

MAPID: 05785647000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.137291 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653684 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 640.1 **LOGGED (FT.):** 18.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1644 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.1			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05785648000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.137932 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653623 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 639.3 **LOGGED (FT.):** 18.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1641 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
639.3			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05785649000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138471 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653543 DATE COLLECTED:

SURFACE ELEVATION (FT.): 640.3 LOGGED (FT.): 13.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1640 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.3			UNKNOWN	11.2	0.0	
629.1	CARBONDALE	SPRINGFIELD	COAL	1.8	11.2	

MAPID: 05785650000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.13924 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653302 DATE COLLECTED:

SURFACE ELEVATION (FT.): 638.7 LOGGED (FT.): 18.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1639 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
638.7			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05785653000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139422 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651422 DATE COLLECTED:

SURFACE ELEVATION (FT.): 643.5 LOGGED (FT.): 18.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1628 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
643.5			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05785654000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.139032 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.650422 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 650.2 **LOGGED (FT.):** 21.3 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1622 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.2			UNKNOWN	17.3	0.0	
632.9	CARBONDALE	SPRINGFIELD	COAL	4.0	17.3	

MAPID: 05785655000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.13902 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.649824 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 659.1 **LOGGED (FT.):** 35.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1621 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.1			UNKNOWN	31.2	0.0	
627.9	CARBONDALE	SPRINGFIELD	COAL	3.8	31.2	

MAPID: 05785656000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.138645 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.650458 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 654.7 **LOGGED (FT.):** 24.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1620 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.7			UNKNOWN	20.0	0.0	
634.7	CARBONDALE	SPRINGFIELD	COAL	4.2	20.0	

MAPID: 05785657000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138059 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650152 DATE COLLECTED:

SURFACE ELEVATION (FT.): 659.7 LOGGED (FT.): 35.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1619 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.7			UNKNOWN	31.2	0.0	
628.5	CARBONDALE	SPRINGFIELD	COAL	3.8	31.2	

MAPID: 05785662000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130621 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649609 DATE COLLECTED:

SURFACE ELEVATION (FT.): 722.3 LOGGED (FT.): 30.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1545 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.3			UNKNOWN	29.5	0.0	
692.8	CARBONDALE	HERRIN	COAL	0.8	29.5	

MAPID: 05785663000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130973 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649707 DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.9 LOGGED (FT.): 27.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1544 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.9			UNKNOWN	25.6	0.0	
693.3	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.4	25.6	

MAPID: 05785664000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130499 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649284 DATE COLLECTED:

SURFACE ELEVATION (FT.): 730.5 LOGGED (FT.): 37.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1543 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.5			UNKNOWN	33.4	0.0	
697.1	CARBONDALE	HERRIN	COAL	2.6	33.4	DIRTY
694.5	CARBONDALE	HERRIN	COAL	0.2	36.0	DIRTY BROKEN
694.3	CARBONDALE	HERRIN	COAL	1.5	36.2	DIRTY BROKEN

MAPID: 05785665000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130854 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649274 DATE COLLECTED:

SURFACE ELEVATION (FT.): 723.1 LOGGED (FT.): 32.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1542 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.1			UNKNOWN	30.5	0.0	
692.6	CARBONDALE	HERRIN	COAL	0.5	30.5	DIRTY
692.1	CARBONDALE	HERRIN	COAL	0.2	31.0	DIRTY BROKEN
691.9	CARBONDALE	HERRIN	COAL	0.7	31.2	DIRTY
691.2	CARBONDALE	HERRIN	COAL	0.2	31.9	DIRTY BROKEN
691.0	CARBONDALE	HERRIN	COAL	0.4	32.1	DIRTY

MAPID: 05785666000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131316 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64949 DATE COLLECTED:

SURFACE ELEVATION (FT.): 721.6 LOGGED (FT.): 39.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1541 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.6			UNKNOWN	39.0	0.0	NO COAL

MAPID: 05785667000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131063 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649185 DATE COLLECTED:

SURFACE ELEVATION (FT.): 721.7 LOGGED (FT.): 31.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1540 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.7			UNKNOWN	27.7	0.0	
694.0	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.4	27.7	
693.6	CARBONDALE	HERRIN	COAL	1.4	28.1	
692.2	CARBONDALE	HERRIN	COAL	0.2	29.5	DIRTY BROKEN
692.0	CARBONDALE	HERRIN	COAL	1.3	29.7	

MAPID: 05785668000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129226 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.641952 DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.2 LOGGED (FT.): 59.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 1530 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.2			UNKNOWN	55.5	0.0	
689.7	CARBONDALE	HERRIN	COAL	2.6	55.5	
687.1	CARBONDALE	HERRIN	COAL	0.4	58.1	DIRTY & BROKEN
686.7	CARBONDALE	HERRIN	COAL	1.4	58.5	DIRTY

MAPID: 05785669000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132623 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649433 DATE COLLECTED:

SURFACE ELEVATION (FT.): 722.3 LOGGED (FT.): 34.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1529 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.3			UNKNOWN	30.8	0.0	
691.5	CARBONDALE	HERRIN	COAL	2.4	30.8	SOFT
689.1	CARBONDALE	HERRIN	COAL	0.2	33.2	DIRTY & BROKEN
688.8	CARBONDALE	HERRIN	COAL	0.9	33.5	SOFT

MAPID: 05785670000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132781 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649286 DATE COLLECTED:

SURFACE ELEVATION (FT.): 725.9 LOGGED (FT.): 38.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1528 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.9			UNKNOWN	34.3	0.0	
691.6	CARBONDALE	HERRIN	COAL	2.5	34.3	
689.1	CARBONDALE	HERRIN	COAL	0.2	36.8	DIRTY & BROKEN
688.9	CARBONDALE	HERRIN	COAL	1.1	37.0	

MAPID: 05785671000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132876 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649418 DATE COLLECTED:

SURFACE ELEVATION (FT.): 727.5 LOGGED (FT.): 40.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1527 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.5			UNKNOWN	38.5	0.0	
689.0	CARBONDALE	HERRIN	COAL	1.5	38.5	

MAPID: 05785672000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134762 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650898 DATE COLLECTED:

SURFACE ELEVATION (FT.): 714.5 LOGGED (FT.): 39.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1526 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.5			UNKNOWN	39.0	0.0	NO COAL

MAPID: 05785673000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.134901 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.650646 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 716.4 **LOGGED (FT.):** 35.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1525 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.4			UNKNOWN	35.0	0.0	NO COAL

MAPID: 05785674000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.135089 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.65059 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 716.1 **LOGGED (FT.):** 28.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1524 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.1			UNKNOWN	28.0	0.0	NO COAL

MAPID: 05785675000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.135132 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.650904 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 715.2 **LOGGED (FT.):** 30.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1523 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.2			UNKNOWN	26.4	0.0	
688.8	CARBONDALE	HERRIN	COAL/CLAYSTONE	3.6	26.4	

MAPID: 05785676000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.135174 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650708 DATE COLLECTED:

SURFACE ELEVATION (FT.): 714.1 LOGGED (FT.): 22.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1522 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.1			UNKNOWN	20.2	0.0	
693.9	CARBONDALE	HERRIN	COAL	1.4	20.2	
692.5	CARBONDALE	HERRIN	UNKNOWN	0.3	21.6	"DB" STATED BY DRILLER
692.2	CARBONDALE	HERRIN	COAL	0.9	21.9	

MAPID: 05785677000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136259 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649734 DATE COLLECTED:

SURFACE ELEVATION (FT.): 690.9 LOGGED (FT.): 4.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1520 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.9			UNKNOWN	3.4	0.0	
687.5	CARBONDALE	HERRIN	COAL	0.6	3.4	SOFT

MAPID: 05785678000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.135876 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649509 DATE COLLECTED:

SURFACE ELEVATION (FT.): 682.4 LOGGED (FT.): 4.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1517 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.4			UNKNOWN	4.0	0.0	
678.4	CARBONDALE	HERRIN	COAL	0.6	4.0	

MAPID: 05785679000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.135958 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.649396 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 681.0 **LOGGED (FT.):** 18.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1499 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.0			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05785680000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.138721 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.649265 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 683.2 **LOGGED (FT.):** 18.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1482 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.2			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05785681000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.138768 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.648859 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 698.5 **LOGGED (FT.):** 18.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1469 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.5			UNKNOWN	16.7	0.0	
681.8	CARBONDALE	HERRIN	COAL	1.2	16.7	
680.6	CARBONDALE	HERRIN	BLUE BAND	0.2	17.9	
680.4	CARBONDALE	HERRIN	COAL	0.6	18.1	

MAPID: 05785682000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138623

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648822

DATE COLLECTED:

SURFACE ELEVATION (FT.): 709.0 LOGGED (FT.): 30.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1468

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
709.0			UNKNOWN	28.9	0.0
680.1	CARBONDALE	HERRIN	COAL	1.2	28.9

MAPID: 05785683000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138562

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648549

DATE COLLECTED:

SURFACE ELEVATION (FT.): 691.9 LOGGED (FT.): 15.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1466

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
691.9			UNKNOWN	11.9	0.0
680.0	CARBONDALE	HERRIN	COAL	1.6	11.9
678.4	CARBONDALE	HERRIN	BLUE BAND	0.3	13.5
678.1	CARBONDALE	HERRIN	COAL	1.7	13.8

MAPID: 05785684000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138823

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648506

DATE COLLECTED:

SURFACE ELEVATION (FT.): 686.7 LOGGED (FT.): 8.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1464

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
686.7			UNKNOWN	7.3	0.0
679.4	CARBONDALE	HERRIN	COAL	0.4	7.3
679.0	CARBONDALE	HERRIN	BLUE BAND	0.2	7.7
678.8	CARBONDALE	HERRIN	COAL	0.9	7.9

MAPID: 05785685000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139354

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648754

DATE COLLECTED:

SURFACE ELEVATION (FT.): 685.6 LOGGED (FT.): 2.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1458

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.6			UNKNOWN	2.4	0.0	
683.2	CARBONDALE	HERRIN	COAL	0.2	2.4	

MAPID: 05785686000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139519

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648985

DATE COLLECTED:

SURFACE ELEVATION (FT.): 698.6 LOGGED (FT.): 10.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1447

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.6			UNKNOWN	9.2	0.0	
689.4	CARBONDALE	HERRIN	COAL	1.0	9.2	SOFT

MAPID: 05785687000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139606

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649412

DATE COLLECTED:

SURFACE ELEVATION (FT.): 707.0 LOGGED (FT.): 17.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1445

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
707.0			UNKNOWN	14.0	0.0	
693.0	CARBONDALE	HERRIN	COAL	1.7	14.0	SOFT
691.3	CARBONDALE	HERRIN	BLUE BAND	0.3	15.7	
691.0	CARBONDALE	HERRIN	COAL	1.6	16.0	

MAPID: 05785699000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130447 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647996 DATE COLLECTED:

SURFACE ELEVATION (FT.): 738.4 LOGGED (FT.): 51.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 12 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.4			UNKNOWN	47.0	0.0	
691.4	CARBONDALE	HERRIN	COAL	4.5	47.0	

MAPID: 05785700000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.13042 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649798 DATE COLLECTED:

SURFACE ELEVATION (FT.): 729.5 LOGGED (FT.): 37.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 13 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.5			UNKNOWN	37.0	0.0	COAL TRACES

MAPID: 05785701000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134957 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655148 DATE COLLECTED:

SURFACE ELEVATION (FT.): 651.9 LOGGED (FT.): 59.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X211 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.9			UNKNOWN	59.0	0.0	NO COAL

MAPID: 05785702000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133776 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655182 DATE COLLECTED:

SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 35.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X211B WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0			UNKNOWN	33.0	0.0	
622.0	CARBONDALE	SPRINGFIELD	COAL	2.6	33.0	SOFT

MAPID: 05785706000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 26 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138514 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655113 DATE COLLECTED:

SURFACE ELEVATION (FT.): 645.3 LOGGED (FT.): 47.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X209B WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.3			UNKNOWN	47.0	0.0	NO COAL

MAPID: 05784492000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.15892 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647909 DATE COLLECTED: 4 / 14 / 1937

SURFACE ELEVATION (FT.): 720.0 LOGGED (FT.): 34.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 18 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.0	PLEISTOCENE		CLAY	17.4	0.0	
702.6	PLEISTOCENE		SANDY CLAY	0.8	17.4	
701.8	PLEISTOCENE		CLAY	5.6	18.2	
696.3	PLEISTOCENE		SANDY CLAY	0.9	23.7	
695.4	PLEISTOCENE		CLAY	6.4	24.6	
689.0	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.4	31.0	TOP ERODED
688.6	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.6	31.4	SOFT
688.0	CARBONDALE	HERRIN	COAL	0.5	32.0	
687.5	CARBONDALE	HERRIN	SHALE	0.1	32.5	
687.4	CARBONDALE	HERRIN	COAL	1.2	32.6	
686.2	CARBONDALE		UNDERCLAY	0.7	33.8	

MAPID: 05784493000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.156744

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650646

DATE COLLECTED: 4 / 16 / 1937

SURFACE ELEVATION (FT.): 719.0 LOGGED (FT.): 47.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 37

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.0	PLEISTOCENE		CLAY	22.7	0.0	
696.3	PLEISTOCENE		CLAY	2.4	22.7	YELLOW
693.9	CARBONDALE		SANDY SHALE	1.4	25.1	
692.5	CARBONDALE		SANDSTONE	0.9	26.5	SOFT
691.7	CARBONDALE		DARK SHALE	20.2	27.3	

MAPID: 05784494000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.156277

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647976

DATE COLLECTED: 12 / 19 / 1964

SURFACE ELEVATION (FT.): 709.3 LOGGED (FT.): 14.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 717

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.3	PLEISTOCENE		SOIL	1.0	0.0	
708.3	PLEISTOCENE		CLAY	4.6	1.0	
703.7	CARBONDALE		SHALE	3.4	5.6	WEATHERED
700.3	CARBONDALE	HERRIN	COAL	3.3	9.0	VERY SOFT BROKEN; TOP ERODED
697.0	CARBONDALE		UNDERCLAY	1.9	12.3	

MAPID: 05784495000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.15657 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.64799 DATE COLLECTED: 2 / 19 / 1964
SURFACE ELEVATION (FT.): 714.0 LOGGED (FT.): 21.2 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 718 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.0	PLEISTOCENE		SOIL	1.0	0.0	
713.0	PLEISTOCENE		CLAY	8.0	1.0	
705.0	CARBONDALE		SHALE	5.2	9.0	WEATHERED
699.8	CARBONDALE	HERRIN	COAL	2.3	14.2	SOFT
697.5	CARBONDALE		UNDERCLAY	1.9	16.5	
695.6	CARBONDALE		GRAY SHALE	2.8	18.4	

MAPID: 05784496000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.156885 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.647953 DATE COLLECTED: 2 / 19 / 1964
SURFACE ELEVATION (FT.): 718.1 LOGGED (FT.): 21.9 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 719 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.1	PLEISTOCENE		SOIL	1.0	0.0	
717.1	PLEISTOCENE		CLAY	10.0	1.0	
707.1	CARBONDALE		SHALE	4.8	11.0	WEATHERED
702.3	CARBONDALE	HERRIN	COAL	4.0	15.8	SOFT
698.3	CARBONDALE		UNDERCLAY	2.1	19.8	

MAPID: 05784497000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.157211 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.647979 DATE COLLECTED: 2 / 20 / 1964
SURFACE ELEVATION (FT.): 718.4 LOGGED (FT.): 25.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 720 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.4	PLEISTOCENE		SOIL	1.0	0.0	
717.4	PLEISTOCENE		SANDY CLAY	24.0	1.0	

MAPID: 05784498000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.155364 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.647958 DATE COLLECTED: 2 / 21 / 1964
SURFACE ELEVATION (FT.): 707.0 LOGGED (FT.): 15.2 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 725 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
707.0	PLEISTOCENE		CLAY	2.5	0.0	
704.5	CARBONDALE		SHALE	6.5	2.5	WEATHERED
698.0	CARBONDALE	HERRIN	COAL	4.3	9.0	SOFT
693.7	CARBONDALE		UNDERCLAY	1.9	13.3	

MAPID: 05784499000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.158594 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.647869 DATE COLLECTED: 2 / 19 / 1964
SURFACE ELEVATION (FT.): 723.4 LOGGED (FT.): 30.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 759 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.4	PLEISTOCENE		CLAY	17.5	0.0	
705.9	CARBONDALE		SANDY SHALE	6.6	17.5	VERY SOFT
699.3	CARBONDALE		CLAYSTONE	1.0	24.1	WHITE TOP
698.3	CARBONDALE	HERRIN	COAL	0.9	25.1	
697.4	CARBONDALE		UNDERCLAY	1.5	26.0	
695.9	CARBONDALE		GRAY SHALE	2.5	27.5	

MAPID: 05784500000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.158719 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.648117 DATE COLLECTED: 2 / 19 / 1964
SURFACE ELEVATION (FT.): 718.1 LOGGED (FT.): 20.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 760 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.1	PLEISTOCENE		CLAY	16.1	0.0	
702.0	CARBONDALE	HERRIN	COAL	0.9	16.1	VERY SOFT BROKEN; TOP ERODED
701.1	CARBONDALE		UNDERCLAY	1.5	17.0	
699.6	CARBONDALE		SHALE	1.5	18.5	SOFT

MAPID: 05784501000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.158357 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.648069 DATE COLLECTED: 2 / 19 / 1964
SURFACE ELEVATION (FT.): 716.9 LOGGED (FT.): 17.5 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 761 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.9	PLEISTOCENE		CLAY	13.7	0.0	
703.2	CARBONDALE	HERRIN	COAL	2.5	13.7	SOFT BROKEN; TOP ERODED
700.7	CARBONDALE		UNDERCLAY	1.3	16.2	

MAPID: 05784502000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.158268 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.64786 DATE COLLECTED: 2 / 19 / 1964
SURFACE ELEVATION (FT.): 719.1 LOGGED (FT.): 22.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 762 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.1	PLEISTOCENE		CLAY	15.0	0.0	
704.1	CARBONDALE		SANDY SHALE	1.7	15.0	SOFT
702.4	CARBONDALE	HERRIN	COAL	0.8	16.7	BLOSSOM
701.6	CARBONDALE	HERRIN	COAL	1.3	17.5	SOFT
700.3	CARBONDALE	HERRIN	BLUE BAND	0.2	18.8	
700.1	CARBONDALE	HERRIN	COAL	1.4	19.0	SOFT
698.7	CARBONDALE		UNDERCLAY	1.6	20.4	

MAPID: 05784529000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.15776 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.651262 DATE COLLECTED:
SURFACE ELEVATION (FT.): 727.9 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 396N WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.9			UNKNOWN	70.0	0.0	OLD WORKS

MAPID: 0578453000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.156638 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.651268 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 726.8 **LOGGED (FT.):** 82.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 396B **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.8			UNKNOWN	82.0	0.0	OLD WORKS

MAPID: 05784531000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.155384 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.651261 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 723.7 **LOGGED (FT.):** 57.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 396P **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.7			UNKNOWN	57.0	0.0	OLD WORKS

MAPID: 05784532000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.155528 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.651872 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 721.0 **LOGGED (FT.):** 83.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 396M **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.0			UNKNOWN	78.0	0.0	
643.0	CARBONDALE	SPRINGFIELD	COAL	5.0	78.0	

MAPID: 05784533000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.15663 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.651966 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 727.7 **LOGGED (FT.):** 79.5 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 396L **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.7			UNKNOWN	79.5	0.0	OLD WORKS

MAPID: 05784534000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.157702 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.65196 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 729.5 **LOGGED (FT.):** 79.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 396K **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.5			UNKNOWN	79.0	0.0	OLD WORKS

MAPID: 05784541000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.157744 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.65335 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 729.2 **LOGGED (FT.):** 81.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 396H **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.2			UNKNOWN	81.0	0.0	OLD WORKS

MAPID: 05784542000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.156563 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653357 DATE COLLECTED:

SURFACE ELEVATION (FT.): 726.2 LOGGED (FT.): 81.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 396A WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.2			UNKNOWN	77.0	0.0	
649.2	CARBONDALE	SPRINGFIELD	COAL	4.5	77.0	

MAPID: 05784543000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.155455 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653371 DATE COLLECTED:

SURFACE ELEVATION (FT.): 725.1 LOGGED (FT.): 82.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 396I WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.1			UNKNOWN	78.0	0.0	
647.1	CARBONDALE	SPRINGFIELD	COAL	4.3	78.0	

MAPID: 05784544000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.155394 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654232 DATE COLLECTED:

SURFACE ELEVATION (FT.): 674.0 LOGGED (FT.): 24.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 396G WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.0			UNKNOWN	20.0	0.0	
654.0	CARBONDALE	SPRINGFIELD	COAL	4.2	20.0	

MAPID: 05784545000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.156612 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.654275 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 723.8 **LOGGED (FT.):** 67.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 396F **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.8			UNKNOWN	67.0	0.0	OLD WORKS

MAPID: 05784546000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.157651 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.654211 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 745.7 **LOGGED (FT.):** 63.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 396E **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.7			UNKNOWN	63.0	0.0	OLD WORKS

MAPID: 05784552000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.156544 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.655133 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 717.8 **LOGGED (FT.):** 65.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 421B **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.8			UNKNOWN	65.0	0.0	OLD WORKS

MAPID: 05784715000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.153667 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.650523 DATE COLLECTED: 4 / 17 / 1937
SURFACE ELEVATION (FT.): 717.0 LOGGED (FT.): 36.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 38 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
717.0	PLEISTOCENE		CLAY	22.0	0.0	
695.0	PLEISTOCENE		CLAY	2.9	22.0	YELLOW
692.1			SANDY SHALE	11.1	24.9	HARD

MAPID: 05784717000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.154856 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.6471 DATE COLLECTED: 2 / 21 / 1964
SURFACE ELEVATION (FT.): 701.3 LOGGED (FT.): 17.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 729 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
701.3	PLEISTOCENE		SOIL	1.0	0.0	
700.3	CARBONDALE		SHALE	3.5	1.0	WEATHERED
696.8	CARBONDALE		SANDSTONE	3.4	4.5	
693.4	CARBONDALE	ANNA	DARK SHALE	3.1	7.9	
690.3	CARBONDALE	HERRIN	COAL	4.1	11.0	
686.2	CARBONDALE		UNDERCLAY	1.9	15.1	

MAPID: 05784718000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.153024 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.648333 DATE COLLECTED: 2 / 24 / 1964
SURFACE ELEVATION (FT.): 704.4 LOGGED (FT.): 10.4 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 735 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
704.4	PLEISTOCENE		SOIL	1.0	0.0	
703.4	CARBONDALE		SHALE	3.5	1.0	WEATHERED
699.9	CARBONDALE	HERRIN	COAL	4.0	4.5	SOFT
695.9	CARBONDALE		UNDERCLAY	1.9	8.5	

MAPID: 05784719000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.153764

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648141

DATE COLLECTED: 2 / 25 / 1964

SURFACE ELEVATION (FT.): 711.3 LOGGED (FT.): 16.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 737

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.3	PLEISTOCENE		SOIL	1.0	0.0	
710.3	PLEISTOCENE		CLAY	3.2	1.0	
707.1	CARBONDALE		SHALE	6.3	4.2	WEATHERED
700.8	CARBONDALE	HERRIN	COAL	4.2	10.5	
696.6	CARBONDALE		UNDERCLAY	1.9	14.7	

MAPID: 05784720000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14984

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648008

DATE COLLECTED: 2 / 26 / 1964

SURFACE ELEVATION (FT.): 697.9 LOGGED (FT.): 8.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 741

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.9	PLEISTOCENE		SOIL	1.0	0.0	
696.9	PLEISTOCENE		CLAY	1.5	1.0	
695.4	CARBONDALE	HERRIN	COAL	3.8	2.5	VERY SOFT; TOP ERODED
691.6	CARBONDALE		CLAYSTONE	2.0	6.3	DRILLER REPORTS YEL CLAY

MAPID: 05784721000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.150134

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647998

DATE COLLECTED: 2 / 4 / 1964

SURFACE ELEVATION (FT.): 701.8 LOGGED (FT.): 10.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 742

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.8	PLEISTOCENE		CLAY	4.5	0.0	
697.3	CARBONDALE	HERRIN	COAL	3.9	4.5	VERY SOFT; TOP ERODED
693.4	CARBONDALE		CLAY	2.0	8.4	DRILLER REPORTS YELLOW CLAY

MAPID: 05784722000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.152543

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648388

DATE COLLECTED: 2 / 26 / 1964

SURFACE ELEVATION (FT.): 702.0 LOGGED (FT.): 3.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 789

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.0	PLEISTOCENE		CLAY	2.7	0.0	
699.3	CARBONDALE	HERRIN	COAL	1.0	2.7	BLOSSOM:TOP ERODED

MAPID: 05784723000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.152183

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64829

DATE COLLECTED: 2 / 26 / 1964

SURFACE ELEVATION (FT.): 697.9 LOGGED (FT.): 3.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 791

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.9	PLEISTOCENE		CLAY	2.0	0.0	
695.9	CARBONDALE	HERRIN	COAL	1.0	2.0	BLOSSOM:TOP ERODED

MAPID: 05784724000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.15186

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648207

DATE COLLECTED: 2 / 26 / 1964

SURFACE ELEVATION (FT.): 701.1 LOGGED (FT.): 1.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 792

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.1	PLEISTOCENE		CLAY	1.5	0.0	COAL BLOSSOM

MAPID: 05784725000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.152069

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648092

DATE COLLECTED: 2 / 27 / 1964

SURFACE ELEVATION (FT.): 708.5 LOGGED (FT.): 15.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 793

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
708.5	PLEISTOCENE		CLAY	4.2	0.0	
704.3	CARBONDALE		SANDY SHALE	3.1	4.2	
701.2	CARBONDALE	BRERETON	LIMESTONE	3.4	7.3	SOFT
697.8	CARBONDALE		CLAYSTONE	0.6	10.7	WHITE TOP
697.2	CARBONDALE	HERRIN	COAL	3.4	11.3	SOFT BROKEN
693.8	CARBONDALE		UNDERCLAY	1.0	14.7	

MAPID: 05784726000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.140945

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.641015

DATE COLLECTED: 3 / 12 / 1964

SURFACE ELEVATION (FT.): 717.2 LOGGED (FT.): 25.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 816

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.2	PLEISTOCENE		SOIL	1.0	0.0	
716.2	CARBONDALE		SHALE	5.8	1.0	WEATHERED
710.4	CARBONDALE		SANDSTONE/LIMESTONE	8.4	6.8	
702.0	CARBONDALE		GRAY SHALE	9.8	15.2	LOST WATER
692.2	CARBONDALE	HERRIN	CAVITY	-	25.0	

MAPID: 05784727000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14313

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645415

DATE COLLECTED: 3 / 13 / 1964

SURFACE ELEVATION (FT.): 689.4 LOGGED (FT.): 1.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 818

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.4	PLEISTOCENE		SOIL	1.5	0.0	OUTCROP

MAPID: 05784728000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW

LONGITUDE: -90.143121

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 40.645608

DATE COLLECTED: 3 / 13 / 1964

SURFACE ELEVATION (FT.): 686.4

LOGGED (FT.): 8.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 819

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
686.4	PLEISTOCENE		SOIL	1.0	0.0	
685.4	CARBONDALE		SHALE	1.5	1.0	WEATHERED
683.9	CARBONDALE	HERRIN	COAL	3.7	2.5	SOFT
680.2	CARBONDALE		UNDERCLAY	1.9	6.2	

MAPID: 05784729000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW

LONGITUDE: -90.143239

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 40.645853

DATE COLLECTED: 3 / 13 / 1964

SURFACE ELEVATION (FT.): 688.6

LOGGED (FT.): 1.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 820

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.6	PLEISTOCENE		SOIL	1.5	0.0	

MAPID: 05784730000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW

LONGITUDE: -90.14363

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 40.64627

DATE COLLECTED: 3 / 13 / 1964

SURFACE ELEVATION (FT.): 689.8

LOGGED (FT.): 1.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 821

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.8	PLEISTOCENE		SOIL	1.5	0.0	OUTCROP

MAPID: 05784732000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144204

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647161

DATE COLLECTED: 3 / 19 / 1964

SURFACE ELEVATION (FT.): 705.2 LOGGED (FT.): 17.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 827

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.2	PLEISTOCENE		SOIL	1.0	0.0	
704.2	PLEISTOCENE		CLAY	7.3	1.0	
696.9	CARBONDALE		GRAY SHALE	1.4	8.3	
695.5	CARBONDALE	BRERETON	LIMESTONE	1.3	9.7	
694.2	CARBONDALE	HERRIN	COAL	4.2	11.0	BROKEN
690.0	CARBONDALE		UNDERCLAY	1.9	15.2	

MAPID: 05784733000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144021

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646952

DATE COLLECTED: 3 / 19 / 1964

SURFACE ELEVATION (FT.): 706.2 LOGGED (FT.): 21.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 828

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.2	PLEISTOCENE		SOIL	1.0	0.0	
705.2	PLEISTOCENE		CLAY	10.0	1.0	
695.2	CARBONDALE		GRAY SHALE	4.0	11.0	
691.2	CARBONDALE	ANNA	DARK SHALE	0.7	15.0	
690.5	CARBONDALE	HERRIN	COAL	4.2	15.7	SOFT
686.3	CARBONDALE		UNDERCLAY	1.9	19.9	

MAPID: 05784734000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148638

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647206

DATE COLLECTED: 2 / 28 / 1964

SURFACE ELEVATION (FT.): 690.4 LOGGED (FT.): 10.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 859

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.4	PLEISTOCENE		CLAY	3.3	0.0	
687.1	PLEISTOCENE		UNKNOWN	0.2	3.3	COAL TRACE
686.9	PLEISTOCENE		CLAY	2.3	3.5	
684.6	CARBONDALE		SANDY SHALE	4.2	5.8	

MAPID: 05784735000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148736

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646894

DATE COLLECTED: 2 / 29 / 1964

SURFACE ELEVATION (FT.): 703.5 LOGGED (FT.): 20.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 860

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.5	PLEISTOCENE		CLAY	2.0	0.0	
701.5	CARBONDALE		SANDY SHALE	7.3	2.0	
694.2	CARBONDALE		GRAY SHALE	1.6	9.3	
692.6	CARBONDALE	HERRIN	COAL	2.0	10.9	SOFT BROKEN
690.6	CARBONDALE	HERRIN	BLUE BAND	0.2	12.9	
690.4	CARBONDALE	HERRIN	COAL	1.6	13.1	SOFT
688.8	CARBONDALE		UNDERCLAY	1.3	14.7	
687.5	CARBONDALE		GRAY SHALE	4.0	16.0	

MAPID: 05784736000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14854

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646815

DATE COLLECTED: 2 / 29 / 1964

SURFACE ELEVATION (FT.): 683.9 LOGGED (FT.): 3.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 862

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.9	PLEISTOCENE		CLAY	3.0	0.0	COAL BROKEN

MAPID: 05784737000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.140864 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.641258 **DATE COLLECTED:** 3 / 10 / 1964
SURFACE ELEVATION (FT.): 686.1 **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 889 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
686.1			UNKNOWN	0.0	0.0	OLD ENTRY

MAPID: 05784738000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.141152 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.641483 **DATE COLLECTED:** 3 / 10 / 1964
SURFACE ELEVATION (FT.): 683.3 **LOGGED (FT.):** 2.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 890 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.3	PLEISTOCENE		CLAY	2.0	0.0	

MAPID: 05784739000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.141393 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.641755 **DATE COLLECTED:** 3 / 10 / 1964
SURFACE ELEVATION (FT.): 682.5 **LOGGED (FT.):** 4.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 891 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.5	PLEISTOCENE		CLAY	4.0	0.0	& COAL BLOSSOM

MAPID: 05784740000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.141904 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.641358 **DATE COLLECTED:** 3 / 10 / 1964
SURFACE ELEVATION (FT.): 686.7 **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 892 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
686.7			UNKNOWN	0.0	0.0	OLD ENTRY

MAPID: 05784741000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142246

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.641179

DATE COLLECTED: 3 / 10 / 1964

SURFACE ELEVATION (FT.): 684.7 LOGGED (FT.): 4.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 893

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.7	PLEISTOCENE		CLAY	1.0	0.0	YELLOW
683.7	CARBONDALE		LIMESTONE	3.0	1.0	COAL CROSS FLOW LINE HERE

MAPID: 05784742000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141927

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.641509

DATE COLLECTED: 3 / 10 / 1964

SURFACE ELEVATION (FT.): 680.8 LOGGED (FT.): 1.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 894

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.8	PLEISTOCENE		CLAY	1.0	0.0	COAL BLOSSOM

MAPID: 05784743000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141733

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.641996

DATE COLLECTED: 3 / 10 / 1964

SURFACE ELEVATION (FT.): 684.2 LOGGED (FT.): 0.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 895

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.2			UNKNOWN	0.0	0.0	OUT CROP

MAPID: 05784744000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.142087 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.642314 **DATE COLLECTED:** 3 / 10 / 1964
SURFACE ELEVATION (FT.): 685.4 **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 896 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.4			UNKNOWN	0.0	0.0	OLD ENTRY

MAPID: 05784745000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.142486 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.642762 **DATE COLLECTED:** 3 / 10 / 1964
SURFACE ELEVATION (FT.): 682.5 **LOGGED (FT.):** 3.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 897 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.5	PLEISTOCENE		CLAY	3.0	0.0	

MAPID: 05784746000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.142942 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.642381 **DATE COLLECTED:** 3 / 10 / 1964
SURFACE ELEVATION (FT.): 682.2 **LOGGED (FT.):** 1.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 899 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.2	PLEISTOCENE		CLAY	1.0	0.0	COAL BLOSSOM

MAPID: 05784747000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.143275 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.641979 **DATE COLLECTED:** 3 / 10 / 1964
SURFACE ELEVATION (FT.): 686.2 **LOGGED (FT.):** 0.6 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 900 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
686.2	PLEISTOCENE		UNKNOWN	0.6	0.0	RED DOG

MAPID: 05784748000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143013

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642607

DATE COLLECTED: 3 / 10 / 1964

SURFACE ELEVATION (FT.): 684.8 LOGGED (FT.): 0.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 902

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.8			UNKNOWN	0.0	0.0	OLD ENTRY

MAPID: 05784749000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143238

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642697

DATE COLLECTED: 3 / 10 / 1964

SURFACE ELEVATION (FT.): 687.9 LOGGED (FT.): 3.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 903

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.9	PLEISTOCENE		CLAY	3.0	0.0	COAL BLOSSOM IN DITCH

MAPID: 05784750000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143015

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642764

DATE COLLECTED: 3 / 10 / 1964

SURFACE ELEVATION (FT.): 685.7 LOGGED (FT.): 0.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 904

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.7			UNKNOWN	0.0	0.0	OUT CROP IN BAND

MAPID: 05784751000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142714

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.643588

DATE COLLECTED: 3 / 10 / 1964

SURFACE ELEVATION (FT.): 683.9 LOGGED (FT.): 0.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 908

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.9			UNKNOWN	0.0	0.0	OUT CROP

MAPID: 05784752000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143114

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644874

DATE COLLECTED: 3 / 10 / 1964

SURFACE ELEVATION (FT.): 687.9 LOGGED (FT.): 0.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 913

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.9			UNKNOWN	0.0	0.0	OLD ENTRY

MAPID: 05784753000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142781

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.643773

DATE COLLECTED: 3 / 10 / 1964

SURFACE ELEVATION (FT.): 687.8 LOGGED (FT.): 0.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 909

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.8			UNKNOWN	0.0	0.0	OLD ENTRY; STILL OPEN

MAPID: 05784785000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143522

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654537

DATE COLLECTED: 9 / 21 / 1945

SURFACE ELEVATION (FT.): 723.0 LOGGED (FT.): 80.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2124

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.0	PLEISTOCENE		SOIL	1.0	0.0	
722.0	PLEISTOCENE		CLAY	42.6	1.0	& BOULDERS
679.4	PLEISTOCENE		CLAY	4.4	43.6	& BOULDERS
675.0	CARBONDALE		DARK SHALE	17.6	48.0	
657.4	CARBONDALE		DARK SHALE	2.4	65.6	
655.0	CARBONDALE		ROCK	2.5	68.0	
652.5	CARBONDALE	TURNER MINE	DARK SHALE	1.5	70.5	
651.0	CARBONDALE	TURNER MINE	DARK SHALE	2.2	72.0	
648.8	CARBONDALE	SPRINGFIELD	COAL	3.7	74.2	
645.1	CARBONDALE		UNDERCLAY	2.7	77.9	

MAPID: 05784786000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142122 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655132 DATE COLLECTED: 9 / 22 / 1945

SURFACE ELEVATION (FT.): 713.0 LOGGED (FT.): 69.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2125 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.0	PLEISTOCENE		SOIL	1.0	0.0	
712.0	PLEISTOCENE		CLAY	16.6	1.0	& BOULDERS
695.4	PLEISTOCENE		SANDY CLAY	29.4	17.6	& BOULDERS
666.0	PLEISTOCENE		WOOD	4.0	47.0	
662.0			UNKNOWN	8.6	51.0	
653.4			UNKNOWN	2.0	59.6	
651.4	CARBONDALE	TURNER MINE	DARK SHALE	1.0	61.6	
650.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	62.6	
649.0	CARBONDALE	SPRINGFIELD	COAL	3.1	64.0	
645.9	CARBONDALE		UNDERCLAY	2.5	67.1	

MAPID: 05784787000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144642 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651452 DATE COLLECTED: 10 / 31 / 1945

SURFACE ELEVATION (FT.): 633.8 LOGGED (FT.): 51.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2150 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.8	PLEISTOCENE		SOIL	1.0	0.0	
632.8	PLEISTOCENE		UNKNOWN	9.0	1.0	
623.8	PLEISTOCENE		SANDY CLAY	6.6	10.0	
617.2	PLEISTOCENE		UNKNOWN	3.4	16.6	
613.8	PLEISTOCENE		UNKNOWN	31.6	20.0	SANDY WITH BOULDERS

MAPID: 05784788000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.149315

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64789

DATE COLLECTED: 11 / 1 / 1945

SURFACE ELEVATION (FT.): 631.0 LOGGED (FT.): 51.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2151

WELL TYPE: Coal Test

COMMENT: COORDINATES UPDATED. CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
631.0	PLEISTOCENE		SOIL	1.0	0.0	
630.0	PLEISTOCENE		SANDY CLAY	9.6	1.0	YELLOW
620.4	PLEISTOCENE		SANDY CLAY	6.0	10.6	GRAY
614.4	CARBONDALE		GRAY SHALE	3.4	16.6	
611.0	CARBONDALE		UNKNOWN	31.6	20.0	

MAPID: 05784789000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.149315

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64789

DATE COLLECTED: 11 / 1 / 1945

SURFACE ELEVATION (FT.): 637.0 LOGGED (FT.): 10.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2152

WELL TYPE: Coal Test

COMMENT: COORDINATES UPDATED. CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
637.0	PLEISTOCENE		SOIL	1.0	0.0	
636.0	PLEISTOCENE		SANDY CLAY	5.2	1.0	
630.8	CARBONDALE	SPRINGFIELD	COAL	2.8	6.2	TOP ERODED
628.0	CARBONDALE		UNDERCLAY	1.4	9.0	

MAPID: 0578479000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144696 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647901 DATE COLLECTED:

SURFACE ELEVATION (FT.): 690.0 LOGGED (FT.): 85.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2153 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.0	PLEISTOCENE		SOIL	1.0	0.0	
689.0	PLEISTOCENE		SANDY CLAY	34.6	1.0	YELLOW WITH BOULDERS
654.4	PLEISTOCENE		SANDY CLAY	10.0	35.6	GRAY WITH BOULDERS
644.4	CARBONDALE		MICACEOUS SHALE	3.1	45.6	
641.3	CARBONDALE		ROCK	11.9	48.7	
629.4	CARBONDALE		UNKNOWN	15.0	60.6	SANDY
614.4	CARBONDALE		UNKNOWN	3.0	75.6	
611.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	78.6	
610.0	CARBONDALE	SPRINGFIELD	COAL	4.1	80.0	
605.9	CARBONDALE		UNDERCLAY	1.5	84.1	

MAPID: 05784791000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147061 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649778 DATE COLLECTED: 11 / 9 / 1945

SURFACE ELEVATION (FT.): 674.0 LOGGED (FT.): 55.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2154 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.0	PLEISTOCENE		SOIL	1.0	0.0	
673.0	PLEISTOCENE		SANDY CLAY	6.6	1.0	YELLOW
666.4	PLEISTOCENE		SANDY CLAY	2.0	7.6	GRAY
664.4	CARBONDALE		GRAY SHALE	24.4	9.6	
640.0	CARBONDALE		UNKNOWN	1.6	34.0	
638.4	CARBONDALE		GRAY SHALE	16.6	35.6	
621.8	CARBONDALE		UNKNOWN	3.4	52.2	LOST WATER

MAPID: 05784792000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.149534

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649751

DATE COLLECTED: 11 / 10 / 1945

SURFACE ELEVATION (FT.): 640.0 LOGGED (FT.): 51.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2155

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.0	PLEISTOCENE		SOIL	1.0	0.0	
639.0	PLEISTOCENE		SANDY CLAY	5.0	1.0	
634.0			UNKNOWN	0.6	6.0	COAL TRACES
633.4			UNKNOWN	6.0	6.6	& BOULDERS
627.4	CARBONDALE		GRAY SHALE	12.4	12.6	
615.0	CARBONDALE		DARK SHALE	1.0	25.0	
614.0	CARBONDALE		DARK SHALE	25.6	26.0	

MAPID: 05784793000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.149315

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64789

DATE COLLECTED: 11 / 10 / 1945

SURFACE ELEVATION (FT.): 630.0 LOGGED (FT.): 25.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2156

WELL TYPE: Coal Test

COMMENT: COORDINATES UPDATED. CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.0	PLEISTOCENE		SOIL	1.0	0.0	
629.0	PLEISTOCENE		SANDY CLAY	11.0	1.0	
618.0	CARBONDALE	SPRINGFIELD	COAL	0.8	12.0	TOP ERODED
617.2	CARBONDALE		GRAY SHALE	4.0	12.8	
613.2	CARBONDALE	SPRINGFIELD	COAL	1.0	16.8	BROKEN
612.2	CARBONDALE		UNKNOWN	7.6	17.8	

MAPID: 05784796000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.146531 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655125 DATE COLLECTED: 7 / 9 / 1954

SURFACE ELEVATION (FT.): 716.2 LOGGED (FT.): 77.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 5996 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.2	PLEISTOCENE		CLAY	38.6	0.0	
677.6	PLEISTOCENE		SANDY CLAY	15.7	38.6	
661.9	CARBONDALE		GRAY SHALE	8.7	54.3	
653.2	CARBONDALE		GRAY SHALE	5.0	63.0	
648.2	CARBONDALE	ST. DAVID	LIMESTONE	0.5	68.0	
647.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.9	68.5	
644.8	CARBONDALE	SPRINGFIELD	COAL	4.9	71.4	AND SLATE
639.9	CARBONDALE		UNDERCLAY	1.0	76.3	

MAPID: 05784797000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.149276 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654307 DATE COLLECTED: 7 / 10 / 1954

SURFACE ELEVATION (FT.): 668.8 LOGGED (FT.): 30.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 5999 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.8	PLEISTOCENE		CLAY	15.7	0.0	
653.1	CARBONDALE		GRAY SHALE	6.2	15.7	
646.9	CARBONDALE		GRAY SHALE	1.0	21.9	
645.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	22.9	BROKEN
644.1	CARBONDALE	SPRINGFIELD	COAL	4.8	24.7	
639.3	CARBONDALE		UNDERCLAY	1.0	29.5	

MAPID: 05784798000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145866 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.654568 DATE COLLECTED: 7 / 12 / 1954
SURFACE ELEVATION (FT.): 724.3 LOGGED (FT.): 84.7 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 6002 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.3	PLEISTOCENE		SOIL	1.0	0.0	
723.3	PLEISTOCENE		CLAY	20.3	1.0	YELLOW
703.0	PLEISTOCENE		CLAY	8.6	21.3	GRAY
694.4	CARBONDALE		GRAY SHALE	18.4	29.9	
676.0	CARBONDALE		DARK SHALE	25.5	48.3	
650.5	CARBONDALE		BLACK SHALE	1.8	73.8	
648.7	CARBONDALE	TURNER MINE	BLACK SHALE	3.2	75.6	
645.5	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.9	78.8	
640.6	CARBONDALE		UNDERCLAY	1.0	83.7	

MAPID: 05784799000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.149181 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.652674 DATE COLLECTED: 7 / 13 / 1954
SURFACE ELEVATION (FT.): 630.6 LOGGED (FT.): 15.7 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 6004 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.6	PLEISTOCENE		SOIL	1.0	0.0	
629.6	PLEISTOCENE		CLAY	5.0	1.0	
624.6			UNKNOWN	1.3	6.0	COAL #5 BLOSSOM REPORTED BY DRILLER
623.3	PLEISTOCENE		SANDY CLAY	8.4	7.3	

MAPID: 0578480000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148427 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.652604 DATE COLLECTED: 7 / 14 / 1954
SURFACE ELEVATION (FT.): 645.0 LOGGED (FT.): 35.7 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 6005 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.0	PLEISTOCENE		CLAY	16.6	0.0	
628.4	CARBONDALE		GRAY SHALE	8.3	16.6	
620.1	CARBONDALE		BLACK SHALE	1.5	24.9	
618.6	CARBONDALE		GRAY SHALE	9.3	26.4	

MAPID: 05784801000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145925 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.653445 DATE COLLECTED: 7 / 14 / 1954
SURFACE ELEVATION (FT.): 713.7 LOGGED (FT.): 79.5 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 6008 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.7	PLEISTOCENE		CLAY	31.9	0.0	YELLOW
681.8	PLEISTOCENE		CLAY	18.0	31.9	GRAY
663.8	CARBONDALE		GRAY SHALE	11.8	49.9	
652.0	CARBONDALE		DARK SHALE	8.3	61.7	
643.7	CARBONDALE	ST. DAVID	LIMESTONE	0.5	70.0	
643.2	CARBONDALE	TURNER MINE	BLACK SHALE	3.1	70.5	
640.1	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.9	73.6	
635.2	CARBONDALE		UNDERCLAY	1.0	78.5	

MAPID: 05784802000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144554 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.652509 DATE COLLECTED: 7 / 15 / 1954
SURFACE ELEVATION (FT.): 638.9 LOGGED (FT.): 15.7 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 6010 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
638.9	PLEISTOCENE		SANDY CLAY	15.7	0.0	

MAPID: 05784804000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.146776

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654621

DATE COLLECTED: 7 / 20 / 1954

SURFACE ELEVATION (FT.): 719.1 LOGGED (FT.): 78.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 6012

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.1	PLEISTOCENE		CLAY	29.7	0.0	
689.4	PLEISTOCENE		SANDY CLAY	29.2	29.7	
660.2	CARBONDALE		GRAY SHALE	7.9	58.9	
652.3	CARBONDALE		BLACK SHALE	2.5	66.8	
649.8	CARBONDALE	TURNER MINE	BLACK SHALE	3.7	69.3	
646.1	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.8	73.0	
641.3	CARBONDALE		UNDERCLAY	1.0	77.8	

MAPID: 05784861000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147243

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653821

DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.9 LOGGED (FT.): 78.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1902

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.9			UNKNOWN	78.5	0.0	OLD WORKS

MAPID: 05784862000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.146757

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654078

DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.2 LOGGED (FT.): 80.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1903

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.2			UNKNOWN	76.6	0.0	
641.6	CARBONDALE	SPRINGFIELD	COAL	3.8	76.6	

MAPID: 05784863000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147248 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654315 DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.8 LOGGED (FT.): 81.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1905 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.8			UNKNOWN	77.9	0.0	
640.9	CARBONDALE	SPRINGFIELD	COAL/CLAYSTONE	2.3	77.9	
638.6	CARBONDALE	SPRINGFIELD	COAL	1.6	80.2	

MAPID: 05784864000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.149516 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653205 DATE COLLECTED:

SURFACE ELEVATION (FT.): 627.0 LOGGED (FT.): 13.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1909 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
627.0			UNKNOWN	13.0	0.0	NO COAL

MAPID: 05784865000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.149297 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653755 DATE COLLECTED:

SURFACE ELEVATION (FT.): 653.6 LOGGED (FT.): 19.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1911 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.6			UNKNOWN	16.5	0.0	
637.1	CARBONDALE	SPRINGFIELD	COAL	3.2	16.5	SOFT

MAPID: 05784868000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.149664

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654266

DATE COLLECTED:

SURFACE ELEVATION (FT.): 648.7 LOGGED (FT.): 9.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X179I

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.7			UNKNOWN	6.0	0.0	
642.7	CARBONDALE	SPRINGFIELD	COAL	3.0	6.0	SOFT

MAPID: 05784872000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144469

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654266

DATE COLLECTED:

SURFACE ELEVATION (FT.): 721.1 LOGGED (FT.): 75.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X182C

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.1			UNKNOWN	71.0	0.0	
650.1	CARBONDALE	SPRINGFIELD	COAL	4.3	71.0	

MAPID: 05784874000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.149461

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647726

DATE COLLECTED:

SURFACE ELEVATION (FT.): 705.0 LOGGED (FT.): 14.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST FV373

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.0			UNKNOWN	9.0	0.0	
696.0	CARBONDALE	HERRIN	COAL	5.0	9.0	SOFT

MAPID: 05784877000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.146998 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.652407 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 635.2 **LOGGED (FT.):** 18.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1890 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.2			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05784879000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.142843 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.65278 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 649.6 **LOGGED (FT.):** 23.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1856 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.6			UNKNOWN	23.0	0.0	NO COAL

MAPID: 05784881000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.148801 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.652707 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 633.2 **LOGGED (FT.):** 8.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1896 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.2			UNKNOWN	8.0	0.0	NO COAL

MAPID: 05784882000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.153968 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655131 DATE COLLECTED:

SURFACE ELEVATION (FT.): 697.9 LOGGED (FT.): 49.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 422 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.9			UNKNOWN	46.2	0.0	
651.7	CARBONDALE	SPRINGFIELD	COAL	3.2	46.2	

MAPID: 05784883000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.154065 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654289 DATE COLLECTED:

SURFACE ELEVATION (FT.): 722.3 LOGGED (FT.): 73.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 397O WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.3			UNKNOWN	73.5	0.0	OLD WORKS

MAPID: 05784884000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.152815 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654213 DATE COLLECTED:

SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 58.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 397E WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.0			UNKNOWN	56.8	0.0	
643.2	CARBONDALE	SPRINGFIELD	COAL	1.7	56.8	SOFT

MAPID: 05784885000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.154168 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653317 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 726.6 **LOGGED (FT.):** 88.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 397C **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.6			UNKNOWN	84.0	0.0	
642.6	CARBONDALE	SPRINGFIELD	COAL	4.2	84.0	

MAPID: 05784886000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.151662 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653359 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 640.7 **LOGGED (FT.):** 50.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 397A **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
640.7			UNKNOWN	50.0	0.0	NO COAL

MAPID: 05784887000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.149664 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653107 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 624.0 **LOGGED (FT.):** 28.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 398G **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
624.0			UNKNOWN	28.0	0.0	NO COAL

MAPID: 05784888000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.154211 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.651306 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 712.5 **LOGGED (FT.):** 81.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 397 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.5			UNKNOWN	77.0	0.0	
635.5	CARBONDALE	SPRINGFIELD	COAL	4.2	77.0	

MAPID: 05784889000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.154199 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.652363 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 725.6 **LOGGED (FT.):** 20.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 397J **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.6			UNKNOWN	20.0	0.0	OLD WORKS

MAPID: 05784890000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.14669 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.652403 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 636.4 **LOGGED (FT.):** 8.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1868 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
636.4			UNKNOWN	8.0	0.0	NO COAL

MAPID: 05784891000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.146121 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.652387 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 634.6 **LOGGED (FT.):** 8.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1865 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
634.6			UNKNOWN	8.0	0.0	NO COAL

MAPID: 05784892000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.144017 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653585 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 684.4 **LOGGED (FT.):** 40.3 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1854 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.4			UNKNOWN	36.4	0.0	
648.0	CARBONDALE	SPRINGFIELD	COAL	3.9	36.4	

MAPID: 05784893000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.141714 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653275 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 648.7 **LOGGED (FT.):** 13.8 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1848 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.7			UNKNOWN	12.1	0.0	
636.7	CARBONDALE	SPRINGFIELD	COAL	1.7	12.0	

MAPID: 05784894000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.141383 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653552 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 651.4 **LOGGED (FT.):** 18.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1845 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.4			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05784895000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.142621 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653808 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 707.1 **LOGGED (FT.):** 68.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1842 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
707.1			UNKNOWN	64.2	0.0	
642.9	CARBONDALE	SPRINGFIELD	COAL	4.0	64.2	

MAPID: 05784896000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.142325 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.653886 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 700.1 **LOGGED (FT.):** 80.6 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1841 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.1			UNKNOWN	80.6	0.0	NO COAL

MAPID: 05784897000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141459 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650787 DATE COLLECTED:

SURFACE ELEVATION (FT.): 646.1 LOGGED (FT.): 21.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1606 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.1			UNKNOWN	17.5	0.0	
628.6	CARBONDALE	SPRINGFIELD	COAL	3.5	17.5	

MAPID: 05784898000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14176 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651224 DATE COLLECTED:

SURFACE ELEVATION (FT.): 635.5 LOGGED (FT.): 13.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1604 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.5			UNKNOWN	13.8	0.0	NO COAL

MAPID: 05784899000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142216 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651134 DATE COLLECTED:

SURFACE ELEVATION (FT.): 635.9 LOGGED (FT.): 10.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1601 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.9			UNKNOWN	9.7	0.0	
626.2	CARBONDALE	SPRINGFIELD	COAL	0.7	9.7	

MAPID: 0578490000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.142773 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.651081 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 633.4 **LOGGED (FT.):** 73.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1599 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
633.4			UNKNOWN	73.0	0.0	NO COAL

MAPID: 05784901000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.143887 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.650534 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 635.5 **LOGGED (FT.):** 9.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1593 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.5			UNKNOWN	8.2	0.0	
627.3	CARBONDALE	SPRINGFIELD	COAL	1.5	8.2	

MAPID: 05784902000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.14411 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.650307 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 636.1 **LOGGED (FT.):** 18.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1592 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
636.1			UNKNOWN	18.0	0.0	NO COAL

MAPID: 05784903000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143745 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650397 DATE COLLECTED:

SURFACE ELEVATION (FT.): 648.7 LOGGED (FT.): 22.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1591 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
648.7			UNKNOWN	19.0	0.0	
629.7	CARBONDALE	SPRINGFIELD	COAL	3.7	19.0	

MAPID: 05784904000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143952 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650043 DATE COLLECTED:

SURFACE ELEVATION (FT.): 636.9 LOGGED (FT.): 12.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1590 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
636.9			UNKNOWN	10.0	0.0	
626.9	CARBONDALE	SPRINGFIELD	COAL	2.5	10.0	

MAPID: 05784905000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144013 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649676 DATE COLLECTED:

SURFACE ELEVATION (FT.): 639.2 LOGGED (FT.): 12.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1588 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
639.2			UNKNOWN	10.3	0.0	
628.9	CARBONDALE	SPRINGFIELD	COAL	2.2	10.3	

MAPID: 05784906000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144295

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64958

DATE COLLECTED:

SURFACE ELEVATION (FT.): 638.9 LOGGED (FT.): 10.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1587

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
638.9			UNKNOWN	9.2	0.0	
629.7	CARBONDALE	SPRINGFIELD	COAL	0.8	9.2	

MAPID: 05784907000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14409

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649328

DATE COLLECTED:

SURFACE ELEVATION (FT.): 641.1 LOGGED (FT.): 13.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1586

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
641.1			UNKNOWN	10.2	0.0	
630.9	CARBONDALE	SPRINGFIELD	COAL	3.3	10.2	

MAPID: 05784908000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148268

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648397

DATE COLLECTED:

SURFACE ELEVATION (FT.): 708.2 LOGGED (FT.): 31.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1232

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
708.2			UNKNOWN	31.0	0.0	NO COAL

MAPID: 05784909000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147928 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648407 DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.4 LOGGED (FT.): 41.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1233 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.4			UNKNOWN	41.7	0.0	NO COAL

MAPID: 05784910000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147418 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648529 DATE COLLECTED:

SURFACE ELEVATION (FT.): 698.9 LOGGED (FT.): 19.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1237 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.9			UNKNOWN	19.0	0.0	
679.9	CARBONDALE	HERRIN	COAL	0.3	19.0	VERY SOFT

MAPID: 05784911000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143338 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645629 DATE COLLECTED:

SURFACE ELEVATION (FT.): 703.5 LOGGED (FT.): 16.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1241 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.5			UNKNOWN	12.5	0.0	
691.0	CARBONDALE	HERRIN	COAL	4.3	12.5	

MAPID: 05784912000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144682

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647964

DATE COLLECTED:

SURFACE ELEVATION (FT.): 709.4 LOGGED (FT.): 29.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1252

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.4			UNKNOWN	29.0	0.0	
680.4	CARBONDALE	HERRIN	COAL	0.3	29.0	SOFT AND BROKEN

MAPID: 05784913000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144832

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648179

DATE COLLECTED:

SURFACE ELEVATION (FT.): 719.3 LOGGED (FT.): 43.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1253

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.3			UNKNOWN	43.3	0.0	NO COAL

MAPID: 05784914000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145192

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648235

DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.5 LOGGED (FT.): 43.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1254

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.5			UNKNOWN	42.0	0.0	
676.5	CARBONDALE	HERRIN	COAL	1.0	42.0	BROKEN

MAPID: 05784915000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.145775 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.648598 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 693.1 **LOGGED (FT.):** 4.9 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1258 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.1			UNKNOWN	3.3	0.0	
689.8	CARBONDALE	HERRIN	COAL	1.6	3.3	BLOSSOM

MAPID: 05784916000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.146023 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.648804 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 696.9 **LOGGED (FT.):** 2.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1262 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.9			UNKNOWN	2.0	0.0	NO COAL

MAPID: 05784917000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.146671 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.648822 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 699.2 **LOGGED (FT.):** 7.1 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1265 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
699.2			UNKNOWN	4.2	0.0	
695.0	CARBONDALE	HERRIN	COAL	2.9	4.2	SOFT & BROKEN

MAPID: 05784918000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.146846 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.648893 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 700.2 **LOGGED (FT.):** 1.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1270 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.2			UNKNOWN	1.0	0.0	NO COAL

MAPID: 05784919000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.147106 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.64882 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 696.4 **LOGGED (FT.):** 2.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1271 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.4			UNKNOWN	2.0	0.0	NO COAL

MAPID: 05784920000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.143596 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.642187 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 733.9 **LOGGED (FT.):** 48.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1278 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.9			UNKNOWN	44.8	0.0	
689.1	CARBONDALE	SPRINGFIELD	COAL	3.9	44.8	

MAPID: 05784921000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.143298 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.642484 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 725.4 **LOGGED (FT.):** 33.9 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1279 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.4			UNKNOWN	33.9	0.0	OLD WORKS

MAPID: 05784922000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.14244 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.64138 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 721.1 **LOGGED (FT.):** 35.8 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1288 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.1			UNKNOWN	35.8	0.0	OLD WORKS

MAPID: 05784923000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.14216 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.641627 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 720.3 **LOGGED (FT.):** 31.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1289 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.3			UNKNOWN	31.0	0.0	OLD WORKS

MAPID: 05784924000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.143636 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.641409 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 732.1 **LOGGED (FT.):** 44.9 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1290 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.1			UNKNOWN	44.9	0.0	OLD WORKS

MAPID: 05784925000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143365 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.641485 DATE COLLECTED:

SURFACE ELEVATION (FT.): 736.4 LOGGED (FT.): 52.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1291 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.4			UNKNOWN	48.1	0.0	
688.3	CARBONDALE	HERRIN	COAL	4.1	48.1	

MAPID: 05784926000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143102 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.641669 DATE COLLECTED:

SURFACE ELEVATION (FT.): 734.2 LOGGED (FT.): 45.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1292 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.2			UNKNOWN	45.1	0.0	OLD WORKS

MAPID: 05784927000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142785 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.641866 DATE COLLECTED:

SURFACE ELEVATION (FT.): 734.7 LOGGED (FT.): 48.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1293 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.7			UNKNOWN	48.1	0.0	OLD WORKS

MAPID: 05784928000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142463

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642304

DATE COLLECTED:

SURFACE ELEVATION (FT.): 722.5 LOGGED (FT.): 42.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1295

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.5			UNKNOWN	38.9	0.0	
683.6	CARBONDALE	HERRIN	COAL	4.0	38.9	

MAPID: 05784929000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142236

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.642032

DATE COLLECTED:

SURFACE ELEVATION (FT.): 719.8 LOGGED (FT.): 32.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1296

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.8			UNKNOWN	32.9	0.0	

MAPID: 05784930000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141974

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.641887

DATE COLLECTED:

SURFACE ELEVATION (FT.): 706.2 LOGGED (FT.): 36.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1297

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.2			UNKNOWN	32.1	0.0	
674.1	CARBONDALE	HERRIN	COAL	3.9	32.1	

MAPID: 05784947000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145636 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655135 DATE COLLECTED: 7 / 8 / 1954

SURFACE ELEVATION (FT.): 719.8 LOGGED (FT.): 84.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 5995 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.8	PLEISTOCENE		SOIL	1.0	0.0	
718.8	PLEISTOCENE		CLAY	30.7	1.0	YELLOW
688.1	PLEISTOCENE		CLAY	11.1	31.7	GRAY
677.0	CARBONDALE		GRAY SHALE	19.1	42.8	
657.9	CARBONDALE		DARK SHALE	10.1	61.9	
647.8	CARBONDALE		LIMESTONE	0.6	72.0	
647.2	CARBONDALE		BLACK SHALE	3.1	72.6	
644.1	CARBONDALE	TURNER MINE	BLACK SHALE	2.7	75.7	
641.4	CARBONDALE	SPRINGFIELD	COAL	4.9	78.4	WITH SLATE
636.5	CARBONDALE		UNDERCLAY	1.0	83.3	

MAPID: 05785485000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.149315 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64789 DATE COLLECTED: 10 / 23 / 1945

SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 11.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2137 WELL TYPE: Coal Test

COMMENT: COORDINATES UPDATED. CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0	PLEISTOCENE		CLAY	1.0	0.0	
654.0	PLEISTOCENE		CLAY, SAND & GRAVEL	5.0	1.0	
649.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	6.0	
648.2	CARBONDALE	SPRINGFIELD	COAL	4.2	6.8	WITH PARTING
644.0	CARBONDALE		UNDERCLAY	0.8	11.0	

MAPID: 05785486000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.149315

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64789

DATE COLLECTED: 10 / 19 / 1945

SURFACE ELEVATION (FT.): 668.0 LOGGED (FT.): 19.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 2135

WELL TYPE: Coal Test

COMMENT: COORDINATES UPDATED. CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.0	PLEISTOCENE		CLAY	1.0	0.0	LOAM
667.0	PLEISTOCENE		SAND/CLAY	7.8	1.0	
659.2	PLEISTOCENE		SAND & GRAVEL	6.2	8.8	
653.0	CARBONDALE	SPRINGFIELD	COAL	3.0	15.0	BLOSSOM; TOP ERODED
650.0	CARBONDALE		UNDERCLAY	1.0	18.0	

MAPID: 05785532000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.140785

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655031

DATE COLLECTED:

SURFACE ELEVATION (FT.): 687.2 LOGGED (FT.): 69.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1804

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.2			UNKNOWN	69.0	0.0	NO COAL

MAPID: 05785534000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.140267

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655081

DATE COLLECTED:

SURFACE ELEVATION (FT.): 682.9 LOGGED (FT.): 59.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1802

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.9			UNKNOWN	59.0	0.0	NO COAL

MAPID: 05785651000C **VERSION:** 1 **PROJECT:** NCRDS
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.140165 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.65227 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 653.3 **LOGGED (FT.):** 15.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1635 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
653.3			UNKNOWN	15.7	0.0	NO COAL

MAPID: 05785652000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.140005 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.651819 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 638.5 **LOGGED (FT.):** 10.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1633 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
638.5			UNKNOWN	10.0	0.0	NO COAL

MAPID: 05785658000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.139675 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.651327 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 642.3 **LOGGED (FT.):** 17.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1615 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
642.3			UNKNOWN	13.9	0.0	
628.4	CARBONDALE	SPRINGFIELD	COAL	3.8	13.9	

MAPID: 05785659000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.139644 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.651147 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 646.1 **LOGGED (FT.):** 12.5 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1614 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.1			UNKNOWN	8.8	0.0	
637.3	CARBONDALE	SPRINGFIELD	COAL	3.7	8.8	

MAPID: 05785660000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.140139 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.651446 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 641.9 **LOGGED (FT.):** 15.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1612 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
641.9			UNKNOWN	15.0	0.0	NO COAL

MAPID: 05785661000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 27 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.140203 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.651327 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 647.3 **LOGGED (FT.):** 15.5 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1611 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
647.3			UNKNOWN	12.2	0.0	
635.1	CARBONDALE	SPRINGFIELD	COAL	3.3	12.2	

MAPID: 05785688000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.140005

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649832

DATE COLLECTED:

SURFACE ELEVATION (FT.): 716.7 LOGGED (FT.): 24.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1443

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.7			UNKNOWN	22.7	0.0	
694.0	CARBONDALE	HERRIN	COAL	1.7	22.7	

MAPID: 05785689000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.140781

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650281

DATE COLLECTED:

SURFACE ELEVATION (FT.): 690.4 LOGGED (FT.): 15.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1441

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.4			UNKNOWN	15.0	0.0	NO COAL

MAPID: 05785690000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.140703

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650132

DATE COLLECTED:

SURFACE ELEVATION (FT.): 703.4 LOGGED (FT.): 13.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1440

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.4			UNKNOWN	9.0	0.0	
694.4	CARBONDALE	HERRIN	COAL	2.6	9.0	
691.8	CARBONDALE	HERRIN	BLUE BAND	0.2	11.6	
691.6	CARBONDALE	HERRIN	COAL	1.3	11.8	

MAPID: 05785717000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 27 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130152 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659709 DATE COLLECTED:

SURFACE ELEVATION (FT.): 715.2 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST X263C WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.2			UNKNOWN	87.0	0.0	NO COAL

MAPID: 05700770000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.17779 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.644026 DATE COLLECTED:

SURFACE ELEVATION (FT.): 721.6 LOGGED (FT.): 67.3 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.6			UNCONSOLIDATED	20.0	0.0	
701.6	CARBONDALE		SANDSTONE	0.7	20.0	
700.9	CARBONDALE		GRAY SHALE	35.0	20.7	
665.9	CARBONDALE		ROCK	2.0	55.7	
663.9	CARBONDALE		SHALE	1.0	57.7	BLUE
662.9	CARBONDALE		ROCK	0.7	58.7	
662.3	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	59.3	FISSILE
659.3	CARBONDALE	SPRINGFIELD	COAL	5.0	62.3	

MAPID: 05700771000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.177757 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.647687 DATE COLLECTED:

SURFACE ELEVATION (FT.): 734.0 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.0			UNCONSOLIDATED	21.0	0.0	
713.0	CARBONDALE	SPRINGFIELD	COAL	5.0	21.0	
708.0	CARBONDALE		SANDY SHALE	3.0	26.0	
705.0	CARBONDALE		SANDSTONE	8.0	29.0	
697.0	CARBONDALE		GRAY SHALE	39.0	37.0	

MAPID: 05700772000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.177724 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.651351 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 732.8 LOGGED (FT.): 72.4 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.8			UNCONSOLIDATED	22.0	0.0	
710.8	CARBONDALE		SHALE	43.1	22.0	SDY UPR 1/2,GY,BL
667.7	CARBONDALE		SANDSTONE	0.8	65.1	
666.9	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	65.9	FISSILE
664.5	CARBONDALE	SPRINGFIELD	COAL	4.2	68.3	

MAPID: 05760013000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.168392 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.640421 DATE COLLECTED: 0 / 0 / 1949
 SURFACE ELEVATION (FT.): 726.2 LOGGED (FT.): 53.8 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.2	CARBONDALE	HERRIN	COAL	3.8	50.0	

MAPID: 05760017000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES: SW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.173075 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.644053 DATE COLLECTED: 0 / 0 / 1949
 SURFACE ELEVATION (FT.): 719.4 LOGGED (FT.): 21.7 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
699.4	CARBONDALE	HERRIN	COAL	1.7	20.0	

MAPID: 05760021000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 28 **QUARTERS/FOOTAGES:** 0' S line, 0' E line of SW NW
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.173041 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.647714 **DATE COLLECTED:** 0 / 0 / 1949
SURFACE ELEVATION (FT.): 736.8 **LOGGED (FT.):** 87.7 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
652.8	CARBONDALE	SPRINGFIELD	COAL	3.7	84.0	

MAPID: 05760022000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 28 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.168326 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.647743 **DATE COLLECTED:** 0 / 0 / 1949
SURFACE ELEVATION (FT.): 727.4 **LOGGED (FT.):** 90.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
641.4	CARBONDALE	SPRINGFIELD	COAL	4.0	86.0	

MAPID: 05760025000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 28 **QUARTERS/FOOTAGES:** 30' S line, 100' E line of NW NW
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.173368 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.651459 **DATE COLLECTED:** 0 / 0 / 1949
SURFACE ELEVATION (FT.): 730.9 **LOGGED (FT.):** 78.1 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
656.9	CARBONDALE	SPRINGFIELD	COAL	4.1	74.0	

MAPID: 05784452000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.162871 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647037 DATE COLLECTED: 6 / 8 / 1977

SURFACE ELEVATION (FT.): 727.8 LOGGED (FT.): 94.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26965 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.8	PLEISTOCENE		SANDY CLAY	23.0	0.0	
704.8	CARBONDALE	HERRIN	COAL	2.0	23.0	SOFT BROKEN; TOP ERODED
702.8	CARBONDALE		UNDERCLAY	2.0	25.0	
700.8	CARBONDALE		LIMESTONE	5.8	27.0	
695.0	CARBONDALE		GRAY SHALE	7.6	32.8	
687.4	CARBONDALE		SANDSTONE	6.4	40.4	
681.0	CARBONDALE		GRAY SHALE	31.2	46.8	
649.8	CARBONDALE		DARK SHALE	7.0	78.0	
642.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	85.0	
642.3	CARBONDALE	TURNER MINE	DARK SHALE	1.5	85.5	
640.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	87.0	
639.4	CARBONDALE	SPRINGFIELD	COAL	3.6	88.4	
635.8	CARBONDALE		UNDERCLAY	2.0	92.0	

MAPID: 05784453000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.16135 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647782 DATE COLLECTED: 6 / 8 / 1977

SURFACE ELEVATION (FT.): 719.8 LOGGED (FT.): 93.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26966 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.8	PLEISTOCENE		CLAY	18.8	0.0	
701.0	CARBONDALE	HERRIN	COAL	0.6	18.8	SOFT; TOP ERODED
700.4	CARBONDALE		UNDERCLAY	1.6	19.4	
698.8	CARBONDALE		GRAY SHALE	2.0	21.0	
696.8	CARBONDALE		LIMESTONE	3.0	23.0	
693.8	CARBONDALE		SHALE & SANDSTONE	57.8	26.0	
636.0	CARBONDALE	ST. DAVID	LIMESTONE	0.8	83.8	
635.2	CARBONDALE	TURNER MINE	DARK SHALE	1.3	84.6	
633.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	85.9	
632.8	CARBONDALE	SPRINGFIELD	COAL	3.7	87.0	
629.1	CARBONDALE		SHALE/UNDERCLAY	2.3	90.7	

MAPID: 05784454000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.159144

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647847

DATE COLLECTED: 11 / 29 / 1960

SURFACE ELEVATION (FT.): 719.4 LOGGED (FT.): 90.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 438

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.4	PLEISTOCENE		SOIL	1.0	0.0	
718.4	PLEISTOCENE		CLAY	16.4	1.0	YELLOW
702.0	CARBONDALE	HERRIN	COAL	1.2	17.4	SOFT BROKEN; TOP ERODED
700.8	CARBONDALE		UNDERCLAY	1.4	18.6	
699.4	CARBONDALE		GRAY SHALE	4.4	20.0	
695.0	CARBONDALE		LIMESTONE	4.2	24.4	
690.8	CARBONDALE		SANDY SHALE	12.0	28.6	
678.8	CARBONDALE		GRAY SHALE	12.8	40.6	
666.0	CARBONDALE		GRAY SHALE	28.6	53.4	
637.4	CARBONDALE	TURNER MINE	DARK SHALE	3.0	82.0	
634.4	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.1	85.0	
630.3	CARBONDALE		UNDERCLAY	1.0	89.1	

MAPID: 05784455000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163324

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647766

DATE COLLECTED: 11 / 30 / 1960

SURFACE ELEVATION (FT.): 722.2 LOGGED (FT.): 24.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 442

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.2	PLEISTOCENE		SOIL	1.0	0.0	
721.2	PLEISTOCENE		CLAY	16.1	1.0	YELLOW
705.1	PLEISTOCENE		CLAY	2.5	17.1	GRAY
702.6	CARBONDALE	HERRIN	COAL	2.0	19.6	SOFT BROKEN; TOP ERODED
700.6	CARBONDALE	HERRIN	BLUE BAND	0.2	21.6	
700.4	CARBONDALE	HERRIN	COAL	0.9	21.8	
699.5	CARBONDALE		UNDERCLAY	1.3	22.7	

MAPID: 05784456000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163377 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646957 DATE COLLECTED: 11 / 30 / 1960

SURFACE ELEVATION (FT.): 726.9 LOGGED (FT.): 26.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 443 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.9	PLEISTOCENE		SOIL	1.0	0.0	
725.9	PLEISTOCENE		CLAY	14.5	1.0	
711.4	PLEISTOCENE		CLAY	3.0	15.5	AND BOULDERS
708.4	PLEISTOCENE		CLAY	3.0	18.5	
705.4	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.0	21.5	WHITE TOP; TOP ERODED
704.4	CARBONDALE	HERRIN	COAL	1.8	22.5	
702.6	CARBONDALE		UNDERCLAY	1.7	24.3	

MAPID: 05784458000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163423 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646101 DATE COLLECTED: 11 / 30 / 1960

SURFACE ELEVATION (FT.): 727.5 LOGGED (FT.): 29.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 444 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.5	PLEISTOCENE		SOIL	1.0	0.0	
726.5	PLEISTOCENE		CLAY	13.6	1.0	YELLOW
712.9	PLEISTOCENE		CLAY	4.9	14.6	GRAY
708.0	CARBONDALE		GRAY SHALE	0.8	19.5	
707.2	CARBONDALE	BRERETON	LIMESTONE	2.2	20.3	
705.0	CARBONDALE		CLAYSTONE	2.5	22.5	WHITE TOP
702.5	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.2	25.0	WHITE TOP
701.3	CARBONDALE		UNDERCLAY	1.8	26.2	
699.5	CARBONDALE		GRAY SHALE	1.0	28.0	

MAPID: 05784459000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163476

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64513

DATE COLLECTED: 12 / 2 / 1960

SURFACE ELEVATION (FT.): 727.3 LOGGED (FT.): 33.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 450

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.3	PLEISTOCENE		SOIL	1.0	0.0	
726.3	PLEISTOCENE		CLAY	19.0	1.0	
707.3	PLEISTOCENE		CLAY, SAND & GRAVEL	6.0	20.0	
701.3	CARBONDALE		GRAY SHALE	1.0	26.0	
700.3	CARBONDALE	BRERETON	LIMESTONE	0.9	27.0	
699.4	CARBONDALE		CLAYSTONE	2.0	27.9	WHITE TOP
697.4	CARBONDALE	HERRIN	COAL	2.1	29.9	SOFT
695.3	CARBONDALE		UNDERCLAY	1.5	32.0	

MAPID: 05784460000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163215

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.643286

DATE COLLECTED: 12 / 3 / 1960

SURFACE ELEVATION (FT.): 728.5 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 453

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.5	PLEISTOCENE		SOIL	1.0	0.0	
727.5	PLEISTOCENE		CLAY	12.9	1.0	YELLOW
714.6	PLEISTOCENE		CLAY	8.0	13.9	GRAY
706.6	PLEISTOCENE		BOULDER	2.5	21.9	
704.1	CARBONDALE		GRAY SHALE	8.1	24.4	
696.0	CARBONDALE		LIMESTONE	1.0	32.5	
695.0	CARBONDALE		GRAY SHALE	8.3	33.5	
686.7	CARBONDALE	ANNA	DARK SHALE	1.6	41.8	
685.1	CARBONDALE	HERRIN	COAL	2.3	43.4	
682.8	CARBONDALE	HERRIN	BLUE BAND	0.2	45.7	
682.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.4	45.9	
681.2	CARBONDALE		UNDERCLAY	1.7	47.3	
679.5	CARBONDALE		GRAY SHALE	1.0	49.0	

MAPID: 05784461000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.162464

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.641618

DATE COLLECTED: 12 / 3 / 1960

SURFACE ELEVATION (FT.): 730.6 LOGGED (FT.): 55.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 454

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.6	PLEISTOCENE		SOIL	1.0	0.0	
729.6	PLEISTOCENE		CLAY	23.2	1.0	YELLOW
706.4	PLEISTOCENE		CLAY	3.8	24.2	GRAY
702.6	PLEISTOCENE		BOULDER	0.6	28.0	
702.0	CARBONDALE		LIMESTONE	3.2	28.6	SOFT
698.8	CARBONDALE		GRAY SHALE	17.4	31.8	
681.4	CARBONDALE	BRERETON	LIMESTONE	0.4	49.2	
681.0	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.4	49.6	WHITE TOP
680.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.8	50.0	
678.8	CARBONDALE	HERRIN	BLUE BAND	0.2	51.8	
678.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	52.0	
677.1	CARBONDALE		UNDERCLAY	1.7	53.5	

MAPID: 05784462000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.16228

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647782

DATE COLLECTED: 2 / 14 / 1964

SURFACE ELEVATION (FT.): 724.1 LOGGED (FT.): 24.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 681

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.1	PLEISTOCENE		SOIL	1.0	0.0	
723.1	PLEISTOCENE		CLAY	17.1	1.0	
706.0	CARBONDALE		SHALE	1.5	18.1	VERY SOFT
704.5	CARBONDALE	HERRIN	COAL	3.0	19.6	
701.5	CARBONDALE		UNDERCLAY	1.4	22.6	

MAPID: 05784463000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.162305

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646921

DATE COLLECTED: 2 / 14 / 1964

SURFACE ELEVATION (FT.): 725.9 LOGGED (FT.): 25.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 682

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.9	PLEISTOCENE		SOIL	1.0	0.0	
724.9	PLEISTOCENE		CLAY	14.5	1.0	
710.4	CARBONDALE		SANDY SHALE	4.7	15.5	VERY SOFT
705.7	CARBONDALE		CLAYSTONE	0.7	20.2	WHITE TOP
705.0	CARBONDALE	HERRIN	COAL	0.8	20.9	SOFT BROKEN
704.2	CARBONDALE	HERRIN	BLUE BAND	0.2	21.7	
704.0	CARBONDALE	HERRIN	COAL	1.1	21.9	SOFT
702.9	CARBONDALE		UNDERCLAY	2.0	23.0	

MAPID: 05784464000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.162549

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645979

DATE COLLECTED: 2 / 14 / 1964

SURFACE ELEVATION (FT.): 727.3 LOGGED (FT.): 27.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 686

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.3	PLEISTOCENE		SOIL	1.0	0.0	
726.3	PLEISTOCENE		CLAY	10.5	1.0	
715.8	PLEISTOCENE		CLAY & GRAVEL	8.4	11.5	
707.4	PLEISTOCENE		BOULDER	0.8	19.9	
706.6	PLEISTOCENE		CLAY	1.6	20.7	
705.0	CARBONDALE	HERRIN	COAL	1.6	22.3	SOFT BROKEN; TOP ERODED
703.4	CARBONDALE	HERRIN	BLUE BAND	0.2	23.9	
703.2	CARBONDALE	HERRIN	COAL	1.0	24.1	VERY SOFT
702.2	CARBONDALE		UNDERCLAY	1.9	25.1	

MAPID: 05784465000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.162863 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645853 DATE COLLECTED: 2 / 15 / 1964

SURFACE ELEVATION (FT.): 726.1 LOGGED (FT.): 27.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 688 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.1	PLEISTOCENE		SOIL	1.0	0.0	
725.1	PLEISTOCENE		CLAY	18.9	1.0	
706.2	CARBONDALE		SANDY SHALE	3.6	19.9	
702.6	CARBONDALE		CLAYSTONE	3.0	23.5	WHITE TOP
699.6	CARBONDALE		UNDERCLAY	1.0	26.5	

MAPID: 05784466000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163181 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645722 DATE COLLECTED: 2 / 15 / 1964

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 25.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 690 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.0	PLEISTOCENE		SOIL	1.0	0.0	
724.0	PLEISTOCENE		CLAY	15.4	1.0	
708.6	PLEISTOCENE		SANDY CLAY	4.8	16.4	
703.8	CARBONDALE	HERRIN	COAL	1.0	21.2	BLOSSOM; TOP ERODED
702.8	CARBONDALE	HERRIN	COAL	1.4	22.2	VERY SOFT
701.4	CARBONDALE		UNDERCLAY	1.4	23.6	

MAPID: 05784467000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163214

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64544

DATE COLLECTED: 2 / 15 / 1964

SURFACE ELEVATION (FT.): 725.1 LOGGED (FT.): 27.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 691

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.1	PLEISTOCENE		SOIL	1.0	0.0	
724.1	PLEISTOCENE		CLAY	17.1	1.0	
707.0	PLEISTOCENE		BOULDER	2.7	18.1	
704.3	CARBONDALE		SANDY SHALE	1.8	20.8	GRAY
702.5	CARBONDALE		CLAYSTONE	0.8	22.6	WHITE TOP
701.7	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.2	23.4	WHITE TOP
700.5	CARBONDALE	HERRIN	COAL	0.5	24.6	SOFT
700.0	CARBONDALE		UNDERCLAY	1.9	25.1	

MAPID: 05784468000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163216

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.645198

DATE COLLECTED: 2 / 15 / 1964

SURFACE ELEVATION (FT.): 725.2 LOGGED (FT.): 31.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 693

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.2	PLEISTOCENE		SOIL	1.0	0.0	
724.2	PLEISTOCENE		SANDY CLAY	20.2	1.0	
704.0	CARBONDALE		SANDY SHALE	1.0	21.2	
703.0	CARBONDALE		GRAY SHALE	0.9	22.2	
702.1	CARBONDALE	BRERETON	LIMESTONE	3.3	23.1	
698.8	CARBONDALE		CLAYSTONE	2.0	26.4	WHITE TOP
696.8	CARBONDALE	HERRIN	COAL	0.6	28.4	
696.2	CARBONDALE	HERRIN	BLUE BAND	0.2	29.0	
696.0	CARBONDALE	HERRIN	COAL	0.8	29.2	
695.2	CARBONDALE		UNDERCLAY	1.4	30.0	

MAPID: 05784469000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163145

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.644966

DATE COLLECTED: 2 / 15 / 1964

SURFACE ELEVATION (FT.): 727.9 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 694

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.9	PLEISTOCENE		SOIL	1.0	0.0	
726.9	PLEISTOCENE		SANDY CLAY	17.1	1.0	
709.8	CARBONDALE		GRAY SHALE	12.3	18.1	
697.5	CARBONDALE	BRERETON	LIMESTONE	1.8	30.4	
695.7	CARBONDALE	HERRIN	COAL	2.2	32.2	
693.5	CARBONDALE	HERRIN	BLUE BAND	0.2	34.4	
693.3	CARBONDALE	HERRIN	COAL	1.7	34.6	
691.6	CARBONDALE		UNDERCLAY	1.7	36.3	
689.9	CARBONDALE		GRAY SHALE	2.0	38.0	

MAPID: 05784470000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.159441

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647831

DATE COLLECTED: 2 / 17 / 1964

SURFACE ELEVATION (FT.): 718.8 LOGGED (FT.): 20.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 706

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.8	PLEISTOCENE		SOIL	1.0	0.0	
717.8	PLEISTOCENE		CLAY	15.4	1.0	
702.4	CARBONDALE	HERRIN	COAL	2.3	16.4	VERY SOFT;TOP ERODED
700.1	CARBONDALE		UNDERCLAY	2.1	18.7	

MAPID: 05784471000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.159566

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647659

DATE COLLECTED: 2 / 17 / 1964

SURFACE ELEVATION (FT.): 724.1 LOGGED (FT.): 26.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 707

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.1	PLEISTOCENE		SOIL	1.0	0.0	
723.1	PLEISTOCENE		CLAY	20.4	1.0	
702.7	CARBONDALE	HERRIN	COAL	3.6	21.4	VERY SOFT;TOP ERODED
699.1	CARBONDALE		UNDERCLAY	1.9	25.0	

MAPID: 05784472000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.160087

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64756

DATE COLLECTED: 2 / 18 / 1964

SURFACE ELEVATION (FT.): 721.2 LOGGED (FT.): 27.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 711

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.2	PLEISTOCENE		SOIL	1.0	0.0	
720.2	PLEISTOCENE		SANDY CLAY	21.9	1.0	
698.3	CARBONDALE	HERRIN	COAL	2.7	22.9	VERY SOFT;TOP ERODED
695.6	CARBONDALE		UNDERCLAY	1.9	25.6	

MAPID: 05784473000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.16105

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647177

DATE COLLECTED: 2 / 18 / 1964

SURFACE ELEVATION (FT.): 723.9 LOGGED (FT.): 27.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 753

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.9	PLEISTOCENE		SOIL	1.0	0.0	
722.9	PLEISTOCENE		CLAY	21.5	1.0	
701.4	CARBONDALE	HERRIN	COAL	2.2	22.5	SOFT BROKEN;TOP ERODED
699.2	CARBONDALE	HERRIN	BLUE BAND	0.2	24.7	
699.0	CARBONDALE	HERRIN	COAL	1.2	24.9	
697.8	CARBONDALE		UNDERCLAY	1.3	26.1	

MAPID: 05784474000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.160777

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64736

DATE COLLECTED: 2 / 18 / 1964

SURFACE ELEVATION (FT.): 720.8 LOGGED (FT.): 26.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 755

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.8	PLEISTOCENE		CLAY	23.5	0.0	
697.3	CARBONDALE	HERRIN	COAL	1.5	23.5	SOFT BROKEN; TOP ERODED
695.8	CARBONDALE		UNDERCLAY	1.0	25.0	

MAPID: 05784475000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163319

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651057

DATE COLLECTED: 3 / 2 / 1964

SURFACE ELEVATION (FT.): 730.7 LOGGED (FT.): 45.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 801

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.7	PLEISTOCENE		SOIL	1.0	0.0	
729.7	PLEISTOCENE		SANDY CLAY	21.5	1.0	
708.2	CARBONDALE		GRAY SHALE	22.5	22.5	

MAPID: 05784476000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163351

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.650246

DATE COLLECTED: 3 / 2 / 1964

SURFACE ELEVATION (FT.): 730.1 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 802

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.1	PLEISTOCENE		SOIL	1.0	0.0	
729.1	PLEISTOCENE		CLAY	22.5	1.0	
706.6			GRAY SHALE	16.5	23.5	

MAPID: 05784477000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163369 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649448 DATE COLLECTED: 3 / 2 / 1964

SURFACE ELEVATION (FT.): 721.0 LOGGED (FT.): 35.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 803 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.0	PLEISTOCENE		SOIL	1.0	0.0	
720.0	PLEISTOCENE		CLAY	16.9	1.0	
703.1	CARBONDALE		GRAY SHALE	17.1	17.9	

MAPID: 05784478000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.16229 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649485 DATE COLLECTED: 3 / 3 / 1964

SURFACE ELEVATION (FT.): 719.1 LOGGED (FT.): 30.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 804 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.1	PLEISTOCENE		SOIL	1.0	0.0	
718.1	PLEISTOCENE		CLAY	18.6	1.0	
699.5	CARBONDALE		GRAY SHALE	10.4	19.6	

MAPID: 05784479000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.1614 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651123 DATE COLLECTED: 3 / 3 / 1964

SURFACE ELEVATION (FT.): 727.0 LOGGED (FT.): 25.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 805 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.0	PLEISTOCENE		SOIL	1.0	0.0	
726.0	PLEISTOCENE		CLAY	13.3	1.0	
712.7	CARBONDALE	HERRIN	COAL	0.5	14.3	VERY SOFT;TOP ERODED
712.2	CARBONDALE		GRAY SHALE	10.2	14.8	

MAPID: 0578448000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.161256

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.649722

DATE COLLECTED: 3 / 4 / 1964

SURFACE ELEVATION (FT.): 721.6 LOGGED (FT.): 30.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 806

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
721.6	PLEISTOCENE		SOIL	1.0	0.0
720.6	PLEISTOCENE		CLAY	18.8	1.0
701.8			GRAY SHALE	10.2	19.8

MAPID: 05784481000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.162279

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648414

DATE COLLECTED: 3 / 4 / 1964

SURFACE ELEVATION (FT.): 718.8 LOGGED (FT.): 25.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 807

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
718.8	PLEISTOCENE		SOIL	1.0	0.0
717.8	PLEISTOCENE		CLAY	18.7	1.0
699.1	CARBONDALE		GRAY SHALE	5.3	19.7

MAPID: 05784482000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.161405

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.648634

DATE COLLECTED: 3 / 4 / 1964

SURFACE ELEVATION (FT.): 721.6 LOGGED (FT.): 25.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 808

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
721.6	PLEISTOCENE		SOIL	1.0	0.0
720.6	PLEISTOCENE		CLAY	20.7	1.0
699.9	CARBONDALE		GRAY SHALE	3.3	21.7

MAPID: 05784483000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.161987 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646311 DATE COLLECTED: 3 / 5 / 1964

SURFACE ELEVATION (FT.): 727.6 LOGGED (FT.): 30.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 874 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.6	PLEISTOCENE		SOIL	1.0	0.0	
726.6	PLEISTOCENE		CLAY	19.6	1.0	
707.0	PLEISTOCENE		CLAY, SAND & GRAVEL	2.0	20.6	
705.0	CARBONDALE		SHALE	0.9	22.6	SOFT
704.1	CARBONDALE	HERRIN	COAL	2.5	23.5	SOFT BROKEN
701.6	CARBONDALE	HERRIN	COAL	1.3	26.0	
700.3	CARBONDALE		UNDERCLAY	1.7	27.3	
698.6	CARBONDALE		GRAY SHALE	1.0	29.0	

MAPID: 05784484000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163402 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646537 DATE COLLECTED: 3 / 26 / 1964

SURFACE ELEVATION (FT.): 727.8 LOGGED (FT.): 26.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 961 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.8	PLEISTOCENE		SOIL	1.0	0.0	
726.8	PLEISTOCENE		CLAY	17.4	1.0	
709.4	CARBONDALE	BRERETON	LIMESTONE	2.1	18.4	
707.3	CARBONDALE		CLAYSTONE	1.1	20.5	WHITE TOP
706.2	CARBONDALE	HERRIN	COAL	2.6	21.6	SOFT
703.6	CARBONDALE		UNDERCLAY	1.8	24.2	

MAPID: 05784485000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.162776

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646541

DATE COLLECTED: 3 / 26 / 1964

SURFACE ELEVATION (FT.): 728.4 LOGGED (FT.): 26.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 962

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.4	PLEISTOCENE		SOIL	1.0	0.0	
727.4	PLEISTOCENE		CLAY	15.8	1.0	YELLOW
711.6	PLEISTOCENE		CLAY	1.4	16.8	GRAY
710.2	CARBONDALE	BRERETON	LIMESTONE	2.7	18.2	SOFT
707.5	CARBONDALE		CLAYSTONE	1.3	20.9	WHITE TOP
706.2	CARBONDALE	HERRIN	COAL	0.4	22.2	VERY SOFT
705.8	CARBONDALE	HERRIN	COAL	1.0	22.6	SOFT
704.8	CARBONDALE	HERRIN	BLUE BAND	0.2	23.6	
704.6	CARBONDALE	HERRIN	COAL	1.0	23.8	SOFT
703.6	CARBONDALE		UNDERCLAY	1.2	24.8	

MAPID: 05784486000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.162236

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646533

DATE COLLECTED: 3 / 26 / 1964

SURFACE ELEVATION (FT.): 727.1 LOGGED (FT.): 27.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 963

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.1	PLEISTOCENE		SOIL	1.0	0.0	
726.1	PLEISTOCENE		CLAY	19.2	1.0	
706.9	CARBONDALE	HERRIN	COAL	2.1	20.2	VERY SOFT & BROKEN;TOP ERODED
704.8	CARBONDALE	HERRIN	BLUE BAND	0.4	22.3	
704.4	CARBONDALE	HERRIN	COAL/CLAYSTONE	2.0	22.7	WHITE TOP
702.4	CARBONDALE		UNDERCLAY	1.3	24.7	
701.1	CARBONDALE		GRAY SHALE	1.2	26.0	

MAPID: 05784487000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.162805

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646199

DATE COLLECTED: 3 / 28 / 1964

SURFACE ELEVATION (FT.): 727.9 LOGGED (FT.): 26.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 964

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.9	PLEISTOCENE		SOIL	1.0	0.0	
726.9	PLEISTOCENE		CLAY	16.9	1.0	
710.0	CARBONDALE	BRERETON	LIMESTONE	1.8	17.9	BROKEN
708.2	CARBONDALE		SHALE	0.8	19.7	VERY SOFT
707.4	CARBONDALE	HERRIN	COAL	2.9	20.5	
704.5	CARBONDALE	HERRIN	COAL	0.8	23.4	SOFT
703.7	CARBONDALE		UNDERCLAY	1.8	24.2	

MAPID: 05784488000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.162153

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647366

DATE COLLECTED: 3 / 28 / 1964

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 24.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 965

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.0	PLEISTOCENE		SOIL	1.0	0.0	
724.0	PLEISTOCENE		CLAY	16.5	1.0	
707.5	CARBONDALE		SANDY SHALE	1.5	17.5	VERY SOFT
706.0	CARBONDALE	HERRIN	COAL	1.0	19.0	BLOSSOM
705.0	CARBONDALE	HERRIN	COAL	1.7	20.0	VERY SOFT
703.3	CARBONDALE	HERRIN	COAL	0.7	21.7	SOFT BROKEN
702.6	CARBONDALE		UNDERCLAY	1.6	22.4	

MAPID: 05784489000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.162657

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647364

DATE COLLECTED: 3 / 28 / 1964

SURFACE ELEVATION (FT.): 725.4 LOGGED (FT.): 26.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 966

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.4	PLEISTOCENE		SOIL	1.0	0.0	
724.4	PLEISTOCENE		CLAY	19.0	1.0	
705.4	CARBONDALE	HERRIN	COAL	1.5	20.0	BLOSSOM; TOP ERODED
703.9	CARBONDALE	HERRIN	COAL	1.1	21.5	VERY SOFT
702.8	CARBONDALE	HERRIN	COAL	1.6	22.6	SOFT
701.2	CARBONDALE		UNDERCLAY	1.8	24.2	

MAPID: 05784490000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163323

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647352

DATE COLLECTED: 3 / 28 / 1964

SURFACE ELEVATION (FT.): 723.3 LOGGED (FT.): 23.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 967

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.3	PLEISTOCENE		SOIL	1.0	0.0	
722.3	PLEISTOCENE		CLAY	17.1	1.0	
705.2	CARBONDALE	HERRIN	COAL/CLAYSTONE	2.7	18.1	TOP ERODED
702.5	CARBONDALE	HERRIN	COAL	1.0	20.8	SOFT BROKEN
701.5	CARBONDALE		UNDERCLAY	1.2	21.8	

MAPID: 05784491000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.161755 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.647333 DATE COLLECTED: 3 / 28 / 1964
SURFACE ELEVATION (FT.): 714.8 LOGGED (FT.): 17.3 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 968 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.8	PLEISTOCENE		CLAY	8.5	0.0	
706.3			UNKNOWN	2.8	8.5	RED DOG
703.5	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.4	11.3	TOP ERODED
702.1	CARBONDALE		UNDERCLAY	2.3	12.7	
699.8	CARBONDALE		GRAY SHALE	2.3	15.0	

MAPID: 05784508000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.162661 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.647789 DATE COLLECTED: 2 / 15 / 1964
SURFACE ELEVATION (FT.): 723.1 LOGGED (FT.): 23.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 695 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.1	PLEISTOCENE		SOIL	1.0	0.0	
722.1	PLEISTOCENE		CLAY	18.0	1.0	
704.1	CARBONDALE	HERRIN	COAL	1.0	19.0	BLOSSOM; TOP ERODED
703.1	CARBONDALE	HERRIN	COAL	1.5	20.0	SOFT BROKEN
701.6	CARBONDALE		UNDERCLAY	1.5	21.5	

MAPID: 05784523000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.158978 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.648637 DATE COLLECTED:
SURFACE ELEVATION (FT.): 672.4 LOGGED (FT.): 43.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 371J WELL TYPE: Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.4			UNKNOWN	38.5	0.0	
633.9	CARBONDALE	SPRINGFIELD	COAL	4.5	38.5	

MAPID: 05784524000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 28 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.15897 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.649655 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 707.6 **LOGGED (FT.):** 69.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 371C **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
707.6			UNKNOWN	65.2	0.0	
642.4	CARBONDALE	SPRINGFIELD	COAL	4.5	65.2	

MAPID: 05784525000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 28 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.106737 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.636148 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 729.4 **LOGGED (FT.):** 85.4 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 395 **WELL TYPE:** Coal Test
COMMENT: COORDINATES INCORRECT. CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.4			UNKNOWN	81.0	0.0	
648.4	CARBONDALE	SPRINGFIELD	COAL	4.4	81.0	

MAPID: 05784526000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 28 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.163389 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.649647 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 723.0 **LOGGED (FT.):** 84.1 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 370C **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.0			UNKNOWN	80.0	0.0	
643.0	CARBONDALE	SPRINGFIELD	COAL	4.1	80.0	

MAPID: 05784527000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.161488

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65128

DATE COLLECTED:

SURFACE ELEVATION (FT.): 727.5 LOGGED (FT.): 88.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 395B

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.5			UNKNOWN	84.0	0.0	
643.5	CARBONDALE	SPRINGFIELD	COAL	4.6	84.0	

MAPID: 05784528000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.158923

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651277

DATE COLLECTED:

SURFACE ELEVATION (FT.): 725.3 LOGGED (FT.): 81.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 396

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.3			UNKNOWN	77.5	0.0	
647.8	CARBONDALE	SPRINGFIELD	COAL	4.0	77.5	

MAPID: 05784535000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.158905

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.652008

DATE COLLECTED:

SURFACE ELEVATION (FT.): 727.4 LOGGED (FT.): 89.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 396J

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.4			UNKNOWN	85.0	0.0	
642.4	CARBONDALE	SPRINGFIELD	COAL	4.6	85.0	

MAPID: 05784536000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.160089 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651972 DATE COLLECTED:

SURFACE ELEVATION (FT.): 730.5 LOGGED (FT.): 93.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 395M WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.5			UNKNOWN	89.0	0.0	
641.5	CARBONDALE	SPRINGFIELD	COAL	4.5	89.0	

MAPID: 05784537000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.16332 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653063 DATE COLLECTED:

SURFACE ELEVATION (FT.): 733.7 LOGGED (FT.): 91.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 395C WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.7			UNKNOWN	87.0	0.0	
646.7	CARBONDALE	SPRINGFIELD	COAL	4.3	87.0	

MAPID: 05784538000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.160743 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653251 DATE COLLECTED:

SURFACE ELEVATION (FT.): 728.2 LOGGED (FT.): 90.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 395A WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.2			UNKNOWN	86.0	0.0	
642.2	CARBONDALE	SPRINGFIELD	COAL	4.5	86.0	

MAPID: 05784539000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.160049 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653128 DATE COLLECTED:

SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 87.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 395I WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.0			UNKNOWN	84.0	0.0	
638.0	CARBONDALE	SPRINGFIELD	COAL	3.9	84.0	

MAPID: 05784540000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.158912 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653104 DATE COLLECTED:

SURFACE ELEVATION (FT.): 729.5 LOGGED (FT.): 85.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 396C WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.5			UNKNOWN	81.0	0.0	
648.5	CARBONDALE	SPRINGFIELD	COAL	4.3	81.0	

MAPID: 05784547000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.1222 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683927 DATE COLLECTED:

SURFACE ELEVATION (FT.): 726.2 LOGGED (FT.): 54.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 3960 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.2			UNKNOWN	54.0	0.0	OLD WORKS

MAPID: 05784548000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.159897 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654194 DATE COLLECTED:

SURFACE ELEVATION (FT.): 708.3 LOGGED (FT.): 72.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 395G WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
708.3			UNKNOWN	68.5	0.0	
639.8	CARBONDALE	SPRINGFIELD	COAL	4.4	68.5	

MAPID: 05784549000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.161284 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.654186 DATE COLLECTED:

SURFACE ELEVATION (FT.): 729.0 LOGGED (FT.): 90.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 395F WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.0			UNKNOWN	86.3	0.0	
642.7	CARBONDALE	SPRINGFIELD	COAL	4.3	86.3	

MAPID: 05784550000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.160923 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655076 DATE COLLECTED:

SURFACE ELEVATION (FT.): 726.0 LOGGED (FT.): 89.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 420B WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.0			UNKNOWN	85.1	0.0	
640.9	CARBONDALE	SPRINGFIELD	COAL	4.1	85.1	

MAPID: 05784551000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 28 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.159079 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.655097 DATE COLLECTED:

SURFACE ELEVATION (FT.): 718.6 LOGGED (FT.): 80.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 421 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.6			UNKNOWN	76.0	0.0	
642.6	CARBONDALE	SPRINGFIELD	COAL	4.3	76.0	

MAPID: 05700778000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 0' W line

QUADRANGLE: FAIRVIEW LONGITUDE: -90.196963 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.640271 DATE COLLECTED:

SURFACE ELEVATION (FT.): 715.3 LOGGED (FT.): 58.5 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.3			UNCONSOLIDATED	20.0	0.0	
695.3	CARBONDALE		SHALE	34.5	20.0	SDY UPR 2/3
660.8	CARBONDALE	SPRINGFIELD	COAL	4.0	54.5	

MAPID: 05700779000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.192179 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.640293 DATE COLLECTED:

SURFACE ELEVATION (FT.): 709.8 LOGGED (FT.): 50.5 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.8			UNCONSOLIDATED	21.0	0.0	
688.8	CARBONDALE		SANDY SHALE	20.0	21.0	
668.8	CARBONDALE		SANDSTONE	1.0	41.0	
667.8	CARBONDALE		SANDY SHALE	3.0	42.0	
664.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	45.0	FISSILE
663.8	CARBONDALE	SPRINGFIELD	COAL	4.5	46.0	

MAPID: 05700780000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 0' E line of SE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.177819 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.640362 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 719.6 LOGGED (FT.): 37.0 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.6			UNCONSOLIDATED	15.0	0.0	
704.6	CARBONDALE		SHALE	14.5	15.0	
690.1	CARBONDALE		SANDSTONE	2.5	29.5	"SD + GVL"
687.6	CARBONDALE	TURNER MINE	BLACK SHALE	0.3	32.0	FISSILE
687.3	CARBONDALE	SPRINGFIELD	COAL	4.7	32.3	

MAPID: 05700783000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 29 QUARTERS/FOOTAGES: SW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.192107 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.643958 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 716.0 LOGGED (FT.): 21.3 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.0			UNCONSOLIDATED	5.0	0.0	
711.0	CARBONDALE		SANDY SHALE	15.0	5.0	
696.0	CARBONDALE	SPRINGFIELD	COAL	1.3	20.0	"SOFT"

MAPID: 05700784000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.187334 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.64398 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 728.2 LOGGED (FT.): 63.5 LOG TYPE: Drillers Log
 SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.2			UNCONSOLIDATED	18.0	0.0	
710.2	CARBONDALE		ROCK	0.7	18.0	
709.5	CARBONDALE		SHALE	36.5	18.7	
673.0	CARBONDALE		ROCK	0.7	55.2	
672.4	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	55.8	FISSILE
669.4	CARBONDALE	SPRINGFIELD	COAL	4.7	58.8	

MAPID: 05700785000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 29 QUARTERS/FOOTAGES: SE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.18256 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.644002 DATE COLLECTED:

SURFACE ELEVATION (FT.): 723.3 LOGGED (FT.): 64.7 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.3			UNCONSOLIDATED	15.0	0.0	
708.3	CARBONDALE		SHALE	30.0	15.0	
678.3	CARBONDALE		BLACK SHALE	8.0	45.0	
670.3	CARBONDALE		SANDSTONE	1.0	53.0	
669.3	CARBONDALE		SHALE	2.0	54.0	BLUE
667.3	CARBONDALE		SANDSTONE	1.0	56.0	
666.3	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	57.0	FISSILE
663.3	CARBONDALE	SPRINGFIELD	COAL	4.7	60.0	

MAPID: 05700787000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.196798 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.647603 DATE COLLECTED:

SURFACE ELEVATION (FT.): 696.8 LOGGED (FT.): 27.2 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.8			UNCONSOLIDATED	13.0	0.0	
683.8	CARBONDALE		SHALE	10.0	13.0	SDY UPR 8 FT
673.8	CARBONDALE	SPRINGFIELD	COAL	4.2	23.0	

MAPID: 05700788000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.192039 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.647625 DATE COLLECTED:

SURFACE ELEVATION (FT.): 714.1 LOGGED (FT.): 44.7 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.1			UNCONSOLIDATED	20.5	0.0	
693.6	CARBONDALE		SHALE	19.5	20.5	SDY UPR 7 FT
674.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	40.0	FISSILE
673.1	CARBONDALE	SPRINGFIELD	COAL	3.7	41.0	

MAPID: 05700790000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.182517 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.647666 DATE COLLECTED:

SURFACE ELEVATION (FT.): 728.5 LOGGED (FT.): 68.2 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.5			UNCONSOLIDATED	13.0	0.0	
715.5	CARBONDALE		SANDY SHALE	16.0	13.0	
699.5	CARBONDALE		SANDSTONE	2.0	29.0	
697.5	CARBONDALE		GRAY SHALE	28.0	31.0	
669.5	CARBONDALE		SANDSTONE	3.0	59.0	
666.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	62.0	FISSILE
664.5	CARBONDALE	SPRINGFIELD	COAL	4.2	64.0	

MAPID: 05700792000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.196716 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.65127 DATE COLLECTED:

SURFACE ELEVATION (FT.): 707.3 LOGGED (FT.): 47.3 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
707.3			UNCONSOLIDATED	22.0	0.0	
685.3	CARBONDALE		SHALE	17.0	22.0	
668.3	CARBONDALE		SANDSTONE	2.0	39.0	
666.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	41.0	FISSILE
664.3	CARBONDALE	SPRINGFIELD	COAL	4.3	43.0	

MAPID: 05700793000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 29 QUARTERS/FOOTAGES: NW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.191967 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.651289 DATE COLLECTED:

SURFACE ELEVATION (FT.): 716.7 LOGGED (FT.): 46.3 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.7			UNCONSOLIDATED	20.5	0.0	
696.2	CARBONDALE		SHALE	18.5	20.5	GY,SDY TOP 10.5 FT
677.7	CARBONDALE		SANDSTONE	0.8	39.0	
676.9	CARBONDALE		SANDY SHALE	2.3	39.8	
674.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	42.2	FISSILE
674.0	CARBONDALE	SPRINGFIELD	COAL	3.7	42.7	

MAPID: 05700794000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.187222 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.651311 DATE COLLECTED:

SURFACE ELEVATION (FT.): 726.0 LOGGED (FT.): 61.0 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.0			UNCONSOLIDATED	21.0	0.0	
705.0	CARBONDALE		SANDSTONE	6.0	21.0	
699.0	CARBONDALE		SANDY SHALE	21.0	27.0	
678.0	CARBONDALE		SANDSTONE	4.0	48.0	
674.0	CARBONDALE		GRAY SHALE	3.0	52.0	
671.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	55.0	FISSILE
670.0	CARBONDALE	SPRINGFIELD	COAL	5.0	56.0	

MAPID: 05760016000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 29 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.196881 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.643935 DATE COLLECTED: 0 / 0 / 1949

SURFACE ELEVATION (FT.): 718.0 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
656.0	CARBONDALE	SPRINGFIELD	COAL	5.0	62.0	

MAPID: 05760020000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 29 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.187276 GEOLOGIST: TRASK,CB
CONFIDENTIAL: N LATITUDE: 40.647647 DATE COLLECTED: 0 / 0 / 1949
SURFACE ELEVATION (FT.): 684.2 LOGGED (FT.): 14.2 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.2	CARBONDALE	SPRINGFIELD	COAL	4.2	10.0	

MAPID: 05760024000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 29 QUARTERS/FOOTAGES: NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.182473 GEOLOGIST: TRASK,CB
CONFIDENTIAL: N LATITUDE: 40.65133 DATE COLLECTED: 0 / 0 / 1949
SURFACE ELEVATION (FT.): 724.6 LOGGED (FT.): 67.5 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.6	CARBONDALE	SPRINGFIELD	COAL	4.5	63.0	

MAPID: 05700800000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 30 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.214637 GEOLOGIST: TRASK,CB
CONFIDENTIAL: N LATITUDE: 40.647583 DATE COLLECTED:
SURFACE ELEVATION (FT.): 693.1 LOGGED (FT.): 31.6 LOG TYPE: Drillers Log
SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.1			UNCONSOLIDATED	18.0	0.0	
675.1	CARBONDALE		SANDY SHALE	6.0	18.0	
669.1	CARBONDALE		SANDSTONE	1.0	24.0	
668.1	CARBONDALE		GRAY SHALE	1.0	25.0	
667.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	26.0	FISSILE
666.1	CARBONDALE	SPRINGFIELD	COAL	4.6	27.0	

MAPID: 05700804000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 30 QUARTERS/FOOTAGES: SE NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.199149 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.649432 DATE COLLECTED:

SURFACE ELEVATION (FT.): 703.9 LOGGED (FT.): 30.7 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.9			UNCONSOLIDATED	10.0	0.0	
693.9	CARBONDALE		SANDY SHALE	17.5	10.0	
676.4	CARBONDALE	SPRINGFIELD	COAL	3.2	27.5	

MAPID: 05700808000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 30 QUARTERS/FOOTAGES: NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.201497 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.65125 DATE COLLECTED:

SURFACE ELEVATION (FT.): 702.1 LOGGED (FT.): 24.8 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.1			UNCONSOLIDATED	18.0	0.0	
684.1	CARBONDALE		SANDY SHALE	3.0	18.0	
681.1	CARBONDALE	SPRINGFIELD	COAL	3.8	21.0	"SOFT"

MAPID: 05700810000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 8N 3E

SECTION: 30

QUARTERS/FOOTAGES: SE NE SW

QUADRANGLE: FAIRVIEW

LONGITUDE: -90.207619

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.644866

DATE COLLECTED:

SURFACE ELEVATION (FT.): 700.0

LOGGED (FT.): 221.6

LOG TYPE: Drillers Log

SOURCE: STAR COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
542.8	SPOON		SANDSTONE	1.0	157.2	WH
541.8	SPOON		COAL	0.3	158.2	
541.6	SPOON		UNDERCLAY	3.0	158.4	
538.6	SPOON		SHALE	1.0	161.4	
537.6	SPOON	SEVILLE	LIMESTONE	9.0	162.4	"BK CLOD"
528.6	SPOON	ROCK ISLAND	COAL	1.8	171.4	
526.8	SPOON		UNDERCLAY	1.5	173.2	BASE OF SPOON
525.3	ABBOTT		SHALE	4.3	174.7	
521.0	ABBOTT		ROCK	5.5	179.0	"BK ROCK, BK CLOD, BL CLOD"
515.5	ABBOTT		SANDSTONE	29.0	184.5	BASE OF PENNSYLVANIAN
486.5			LIMESTONE	8.1	213.5	MISSISSIPPIAN

MAPID: 05760010000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 8N 3E

SECTION: 30

QUARTERS/FOOTAGES: 660' N line, 0' E line of SW SE

QUADRANGLE: FAIRVIEW

LONGITUDE: -90.201701

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.642125

DATE COLLECTED: 0 / 0 / 1949

SURFACE ELEVATION (FT.): 716.3

LOGGED (FT.): 70.6

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP.

WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.3	CARBONDALE	SPRINGFIELD	COAL	4.6	66.0	

MAPID: 05760018000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 8N 3E

SECTION: 30

QUARTERS/FOOTAGES: 0' S line, 0' E line of SW NW

QUADRANGLE: FAIRVIEW

LONGITUDE: -90.210178

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.647587

DATE COLLECTED: 0 / 0 / 1949

SURFACE ELEVATION (FT.): 683.0

LOGGED (FT.): 41.2

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP.

WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.0	CARBONDALE	SPRINGFIELD	COAL	4.2	37.0	

MAPID: 05760019000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 30 **QUARTERS/FOOTAGES:** 0' S line, 0' W line of SW NE
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.206361 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.647593 **DATE COLLECTED:** 0 / 0 / 1949
SURFACE ELEVATION (FT.): 684.3 **LOGGED (FT.):** 28.8 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.3	CARBONDALE	SPRINGFIELD	COAL	3.8	25.0	

MAPID: 05760023000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 30 **QUARTERS/FOOTAGES:** SW NW NE
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.205063 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.652148 **DATE COLLECTED:** 0 / 0 / 1949
SURFACE ELEVATION (FT.): 685.0 **LOGGED (FT.):** 29.5 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE COLLIERIES CORP. **WELL TYPE:** Coal Test
COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
657.0	CARBONDALE	SPRINGFIELD	COAL	1.5	28.0	

MAPID: 05786567000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 30 **QUARTERS/FOOTAGES:** 660' S line, 660' E line of NW NW
QUADRANGLE: AVENA **LONGITUDE:** -88.91547 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 39.113347 **DATE COLLECTED:** 10 / 17 / 1960
SURFACE ELEVATION (FT.): 676.5 **LOGGED (FT.):** 120.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE R377 **WELL TYPE:** Coal Test
COMMENT: WEST FAIRVIEW BOX 34

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.5	PLEISTOCENE		UNCONSOLIDATED	9.0	0.0	
667.5	PLEISTOCENE		CLAY	15.0	9.0	
652.5	PLEISTOCENE		CLAY	29.0	24.0	
623.5	CARBONDALE		SANDY SHALE	47.0	53.0	
576.5	CARBONDALE		BLACK SHALE	10.0	100.0	
566.5	CARBONDALE		BLACK SHALE	2.0	110.0	HARD
564.5	CARBONDALE		MICACEOUS SHALE	5.0	112.0	SOFT
559.5	CARBONDALE	COLCHESTER	COAL	1.7	117.0	GOOD
557.8	CARBONDALE		UNDERCLAY	1.3	118.7	

MAPID: 05723092000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 31 QUARTERS/FOOTAGES: 0' S line, 330' E line of NW NW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.211435 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.636591 DATE COLLECTED: 5 / 2 / 1954

SURFACE ELEVATION (FT.): 695.0 LOGGED (FT.): 46.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.0			UNCONSOLIDATED	22.0	0.0	
673.0	CARBONDALE		ROCK	12.0	22.0	"HARD PAN"
661.0	CARBONDALE		SHALE	2.0	34.0	
659.0	CARBONDALE	ST. DAVID	LIMESTONE	0.7	36.0	"CAP ROCK"
658.3	CARBONDALE		SHALE	2.3	36.7	
656.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	39.0	BK.FIS
655.0	CARBONDALE	SPRINGFIELD	COAL	4.0	40.0	
651.0	CARBONDALE		UNDERCLAY	2.0	44.0	

MAPID: 05723094000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 31 QUARTERS/FOOTAGES: 660' N line, 100' W line of NE NE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.201472 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.638471 DATE COLLECTED: 0 / 0 / 1949

SURFACE ELEVATION (FT.): 684.9 LOGGED (FT.): 62.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.9			UNCONSOLIDATED	18.0	0.0	
666.9	CARBONDALE		SANDSTONE	17.0	18.0	
649.9	CARBONDALE		ROCK	3.0	35.0	"SOFT PAN"
646.9	CARBONDALE		SHALE	21.0	38.0	
625.9	CARBONDALE	SPRINGFIELD	COAL	1.5	59.0	SOFT
624.4	CARBONDALE		UNDERCLAY	1.5	60.5	

MAPID: 05723095000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 31 QUARTERS/FOOTAGES: SW NE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.204408 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.634754 DATE COLLECTED: 2 / 15 / 1949

SURFACE ELEVATION (FT.): 707.9 LOGGED (FT.): 84.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
707.9			UNCONSOLIDATED	20.0	0.0	
687.9	CARBONDALE		ROCK	40.0	20.0	"HARD PAN"
647.9	CARBONDALE		ROCK	20.0	60.0	"SOFT PAN"
627.9	CARBONDALE	SPRINGFIELD	COAL	0.5	80.0	"BLOSSOM"
627.4	CARBONDALE		UNDERCLAY	1.0	80.5	
626.4	CARBONDALE		SANDSTONE/SHALE	2.5	81.5	

MAPID: 05723099000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 31 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.205797 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.640313 DATE COLLECTED: 0 / 0 / 1949

SURFACE ELEVATION (FT.): 697.5 LOGGED (FT.): 61.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.5			UNCONSOLIDATED	20.0	0.0	
677.5	CARBONDALE		ROCK	10.0	20.0	"HARD PAN"
667.5	CARBONDALE		SANDSTONE/SHALE	22.0	30.0	
645.5	CARBONDALE	ST. DAVID	LIMESTONE	1.0	52.0	"CAP ROCK"
644.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	53.0	FISSILE
642.5	CARBONDALE	SPRINGFIELD	COAL	4.2	55.0	
638.3	CARBONDALE		UNDERCLAY	1.8	59.2	

MAPID: 0572310000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 31 QUARTERS/FOOTAGES: 0' S line, 660' W line of SE NE
 QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.199718 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.632947 DATE COLLECTED: 0 / 0 / 1949
 SURFACE ELEVATION (FT.): 714.1 LOGGED (FT.): 79.2 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.1			UNCONSOLIDATED	28.0	0.0	
686.1	CARBONDALE		ROCK	32.0	28.0	"SOFT PAN"
654.1	CARBONDALE		SANDSTONE	12.0	60.0	
642.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	72.0	FISSILE
641.1	CARBONDALE	SPRINGFIELD	COAL	4.2	73.0	
636.9	CARBONDALE		UNDERCLAY	2.0	77.2	

MAPID: 05723108000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 31 QUARTERS/FOOTAGES: 495' S line, 990' W line of NW
 QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.211004 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.634212 DATE COLLECTED: 5 / 2 / 1954
 SURFACE ELEVATION (FT.): 705.0 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.0			UNCONSOLIDATED	22.0	0.0	
683.0	CARBONDALE		ROCK	31.0	22.0	"HARD PAN + GVL"
652.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	53.0	FISSILE
651.0	CARBONDALE	SPRINGFIELD	COAL	4.0	54.0	
647.0	CARBONDALE		UNDERCLAY	2.0	58.0	

MAPID: 05760032000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 31 QUARTERS/FOOTAGES: 0' S line, 525' E line of NE NW
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.207777 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.636599 DATE COLLECTED: 0 / 0 / 1949
 SURFACE ELEVATION (FT.): 703.4 LOGGED (FT.): 51.3 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.4	CARBONDALE	SPRINGFIELD	COAL	3.3	48.0	

MAPID: 05700814000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 32 QUARTERS/FOOTAGES: NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.182688 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.636734 DATE COLLECTED:

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 67.9 LOG TYPE: Drillers Log

SOURCE: MISSISSIPPI COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.0			UNCONSOLIDATED	22.0	0.0	
703.0	CARBONDALE		GRAY SHALE	22.0	22.0	
681.0	CARBONDALE		SANDSTONE	8.0	44.0	
673.0	CARBONDALE		SHALE	6.0	52.0	
667.0	CARBONDALE		SANDSTONE	2.0	58.0	
665.0	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	60.0	FISSILE
662.0	CARBONDALE	SPRINGFIELD	COAL	4.9	63.0	

MAPID: 05700820000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 32 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW NW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.192476 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.633025 DATE COLLECTED:

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 102.7 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.0			UNCONSOLIDATED	51.1	0.0	
673.9	CARBONDALE		SHALE	25.8	51.1	LOCLY SDY
648.1	CARBONDALE		SANDSTONE	6.5	76.9	
641.6	CARBONDALE		SHALE	1.5	83.4	GY,SDY
640.1	CARBONDALE		SANDSTONE	10.2	84.9	
629.9	CARBONDALE	TURNER MINE	BLACK SHALE	3.2	95.1	FISSILE
626.7	CARBONDALE	SPRINGFIELD	COAL	4.4	98.3	

MAPID: 05701603000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 32 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW

LONGITUDE: -90.187624

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.633077

DATE COLLECTED:

SURFACE ELEVATION (FT.): 730.0

LOGGED (FT.): 150.3

LOG TYPE: Drillers Log

SOURCE: STAR COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.0			UNCONSOLIDATED	58.0	0.0	
672.0	CARBONDALE		SHALE	17.9	58.0	SDY LWR 6 FT 11 IN
654.1	CARBONDALE		LIMESTONE	3.8	75.9	
650.2	CARBONDALE		SHALE	50.3	79.8	GY,SDY
600.0	CARBONDALE		SANDSTONE	10.9	130.0	GRAY
589.1	CARBONDALE		SHALE	2.0	140.9	DARK
587.1	CARBONDALE		SHALE	0.8	142.9	"CLOD",CALC SH
586.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	143.8	FISSILE
584.3	CARBONDALE		SHALE	0.4	145.7	"CLOD",CALC SH
583.9	CARBONDALE	SPRINGFIELD	COAL	4.3	146.1	

MAPID: 05723110000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 32 QUARTERS/FOOTAGES: 0' S line, 330' W line of NW

QUADRANGLE: FAIRVIEW

LONGITUDE: -90.196133

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.632984

DATE COLLECTED: 3 / 22 / 1949

SURFACE ELEVATION (FT.): 722.3

LOGGED (FT.): 94.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.3			UNCONSOLIDATED	15.0	0.0	
707.3	CARBONDALE		ROCK	25.0	15.0	"HARD PAN"
682.3	CARBONDALE		ROCK	12.0	40.0	"SOFT PAN"
670.3	CARBONDALE		SHALE & SANDSTONE	34.0	52.0	
636.3	CARBONDALE		ROCK	0.5	86.0	
635.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	86.5	BK,FIS LWR 6 IN
633.3	CARBONDALE	SPRINGFIELD	COAL	3.9	89.0	
629.4	CARBONDALE		UNDERCLAY	1.1	92.9	

MAPID: 05723122000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 32 QUARTERS/FOOTAGES: 0' S line, 330' W line of SE NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.181577 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.633142 DATE COLLECTED: 3 / 21 / 1949

SURFACE ELEVATION (FT.): 729.6 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.6			UNCONSOLIDATED	22.0	0.0	
707.6	CARBONDALE		ROCK	28.0	22.0	"SOFT PAN"
679.6	CARBONDALE		SILTSTONE	20.0	50.0	
659.6	CARBONDALE		SANDSTONE/SHALE	28.0	70.0	
631.6	CARBONDALE	ST. DAVID	LIMESTONE	1.5	98.0	"CAP ROCK"
630.1	CARBONDALE		SHALE	1.0	99.5	DARK
629.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	100.5	FISSILE
627.9	CARBONDALE	SPRINGFIELD	COAL	4.3	101.7	
623.6	CARBONDALE		UNDERCLAY	2.0	106.0	

MAPID: 05760011000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 32 QUARTERS/FOOTAGES: 0' N line, 0' E line of NE NW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.187391 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.640316 DATE COLLECTED: 0 / 0 / 1949

SURFACE ELEVATION (FT.): 719.0 LOGGED (FT.): 36.7 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.0	CARBONDALE	SPRINGFIELD	COAL	4.7	32.0	

MAPID: 05760012000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 32 QUARTERS/FOOTAGES: 0' N line, 0' W line of NE NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.182607 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.640337 DATE COLLECTED: 0 / 0 / 1949

SURFACE ELEVATION (FT.): 727.1 LOGGED (FT.): 85.6 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
646.1	CARBONDALE	SPRINGFIELD	COAL	4.6	81.0	

MAPID: 05700826000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 33 QUARTERS/FOOTAGES: 1170' S line, 1120' E line of NE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.163147 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.63651 DATE COLLECTED: 2 / 0 / 1944

SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 410.0 LOG TYPE: Drillers Log

SOURCE: ROGERS, C. H. WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.0			UNCONSOLIDATED	53.0	0.0	
682.0	CARBONDALE		SHALE	6.0	53.0	
676.0	CARBONDALE	BRERETON	LIMESTONE	1.5	59.0	
674.5	CARBONDALE		SHALE	3.0	60.5	"CLOD",CALC SH
671.5	CARBONDALE	HERRIN	COAL	2.0	63.5	
669.5	CARBONDALE		UNDERCLAY	3.0	65.5	
666.5	CARBONDALE		LIMESTONE	18.5	68.5	
648.0	CARBONDALE		SHALE	20.0	87.0	
628.0	CARBONDALE		SANDSTONE	31.5	107.0	
596.5	CARBONDALE	ST. DAVID	LIMESTONE	2.0	138.5	
594.5	CARBONDALE	TURNER MINE	BLACK SHALE	4.5	140.5	FISSILE
590.0	CARBONDALE	SPRINGFIELD	COAL	1.0	145.0	
589.0	CARBONDALE		UNDERCLAY	4.0	146.0	
585.0	CARBONDALE		LIMESTONE	22.0	150.0	
563.0	CARBONDALE		SHALE	23.0	172.0	
540.0	CARBONDALE		SANDSTONE	15.0	195.0	
525.0			SHALE	200.0	210.0	

MAPID: 05700828000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 33 QUARTERS/FOOTAGES: SW SW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.175662 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.627818 DATE COLLECTED: 7 / 11 / 1917

SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.0			UNCONSOLIDATED	90.0	0.0	
645.0	CARBONDALE		COAL	0.3	90.0	"BLOSSOM"
644.7	CARBONDALE		SANDY SHALE	2.7	90.3	
642.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	93.0	FISSILE
641.0	CARBONDALE	SPRINGFIELD	COAL	4.0	94.0	"SOFT DIRTY"
637.0	CARBONDALE		SHALE	2.0	98.0	LIGHT GRAY

MAPID: 05700829000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 33 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.168555 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.633246 DATE COLLECTED: 7 / 6 / 1917

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 128.0 LOG TYPE: Drillers Log

SOURCE: STAR COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.0			UNCONSOLIDATED	47.0	0.0	
685.0	CARBONDALE		SHALE	10.0	47.0	
675.0	CARBONDALE		SANDSTONE	7.0	57.0	
668.0	CARBONDALE		SANDY SHALE	4.0	64.0	
664.0	CARBONDALE		SANDSTONE	14.0	68.0	
650.0	CARBONDALE		SHALE	15.0	82.0	GY SDY
635.0	CARBONDALE		SANDSTONE	22.8	97.0	
612.2	CARBONDALE		SHALE	0.8	119.8	LIGHT GRAY
611.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	120.5	FISSILE
609.0	CARBONDALE		ROCK	0.3	123.0	"SULFUR BAND"
608.7	CARBONDALE	SPRINGFIELD	COAL	4.1	123.3	
604.7	CARBONDALE		ROCK	0.2	127.3	"FALSE BTM"
604.5	CARBONDALE		SHALE	0.5	127.5	LIGHT GRAY

MAPID: 05700947000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 33 QUARTERS/FOOTAGES: 265' N line, 635' E line of SE

QUADRANGLE: FAIRVIEW LONGITUDE: -90.161516 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.632563 DATE COLLECTED: 0 / 0 / 1951

SURFACE ELEVATION (FT.): 740.0 LOGGED (FT.): 1605.0 LOG TYPE: Drillers Log

SOURCE: JENNINGS, C. L. WELL TYPE: Water Well

COMMENT: MOST LITHOLOGIES IN 5-FT INTERVALS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.0			UNCONSOLIDATED	35.0	0.0	
705.0	CARBONDALE		SHALE	5.0	35.0	LIGHT BLUE
700.0	CARBONDALE	HERRIN	COAL	5.0	40.0	
695.0	CARBONDALE		LIMESTONE	5.0	45.0	
690.0	CARBONDALE		SHALE	20.0	50.0	LIGHT BLUE
670.0	CARBONDALE		SANDSTONE	10.0	70.0	
660.0	CARBONDALE		SHALE	25.0	80.0	
635.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	105.0	"CAP ROCK"
634.0	CARBONDALE	SPRINGFIELD	COAL	3.0	106.0	
631.0			SHALE	181.0	109.0	
450.0			ROCK	5.0	290.0	
445.0			LIMESTONE	5.0	295.0	
440.0			SHALE	95.0	300.0	BASE OF PENNSYLVANIAN
345.0			ROCK	1210.0	395.0	MISSISSIPPIAN AND OLDER

MAPID: 05760008000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 33 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.177868 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.636772 DATE COLLECTED: 0 / 0 / 1949

SURFACE ELEVATION (FT.): 724.5 LOGGED (FT.): 99.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.5	CARBONDALE	SPRINGFIELD	COAL	4.0	95.0	

MAPID: 05760009000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 33 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE NE NW

QUADRANGLE: FAIRVIEW LONGITUDE: -90.170824 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.636818 DATE COLLECTED: 0 / 0 / 1949

SURFACE ELEVATION (FT.): 727.0 LOGGED (FT.): 46.9 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.0	CARBONDALE	HERRIN	COAL	3.9	43.0

MAPID: 05784503000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 33 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.160434 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638757 DATE COLLECTED: 12 / 5 / 1960

SURFACE ELEVATION (FT.): 735.1 LOGGED (FT.): 125.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 458 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
735.1	PLEISTOCENE		SOIL	1.0	0.0
734.1	PLEISTOCENE		CLAY	13.7	1.0
720.4	PLEISTOCENE		SANDY CLAY	44.4	14.7
676.0	PLEISTOCENE		SANDY CLAY	7.8	59.1
668.2	CARBONDALE		GRAY SHALE	4.8	66.9
663.4	CARBONDALE		LIMESTONE	0.4	71.7
663.0	CARBONDALE		GRAY SHALE	18.0	72.1
645.0	CARBONDALE		SANDSTONE	24.8	90.1
620.2	CARBONDALE		DARK SHALE	1.8	114.9
618.4	CARBONDALE	ST. DAVID	LIMESTONE	0.2	116.7
618.2	CARBONDALE	TURNER MINE	DARK SHALE	1.4	116.9
616.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	118.3
615.6	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.1	119.5
611.5	CARBONDALE		UNDERCLAY	1.4	123.6

MAPID: 05784504000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 33 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.161186 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.639735 DATE COLLECTED: 12 / 6 / 1960

SURFACE ELEVATION (FT.): 733.0 LOGGED (FT.): 56.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 459 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.0	PLEISTOCENE		SOIL	1.0	0.0	
732.0	PLEISTOCENE		CLAY	18.5	1.0	
713.5	PLEISTOCENE		CLAY & GRAVEL	8.2	19.5	
705.3	CARBONDALE		LIMESTONE	3.2	27.7	
702.1	CARBONDALE		SANDSTONE	4.8	30.9	
697.3	CARBONDALE		GRAY SHALE	11.5	35.7	
685.8	CARBONDALE	ANNA	DARK SHALE	2.2	47.2	
683.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.4	49.4	
681.2	CARBONDALE	HERRIN	BLUE BAND	0.2	51.8	
681.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	52.0	
679.5	CARBONDALE		UNDERCLAY	1.0	53.5	
678.5	CARBONDALE		GRAY SHALE	1.5	54.5	

MAPID: 05784505000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 33 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.159166 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637936 DATE COLLECTED: 12 / 6 / 1960

SURFACE ELEVATION (FT.): 737.1 LOGGED (FT.): 51.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 460 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.1	PLEISTOCENE		SOIL	1.0	0.0	
736.1	PLEISTOCENE		CLAY	15.6	1.0	YELLOW
720.5	PLEISTOCENE		CLAY	2.0	16.6	GRAY
718.5	PLEISTOCENE		BOULDER	0.8	18.6	
717.7	PLEISTOCENE		CLAY	7.1	19.4	& BOULDERS
710.6	CARBONDALE		SANDY SHALE	2.0	26.5	
708.6	CARBONDALE		SHALE	15.3	28.5	
693.3	CARBONDALE	ANNA	DARK SHALE	2.2	43.8	
691.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.3	46.0	
688.8	CARBONDALE	HERRIN	BLUE BAND	0.2	48.3	
688.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	48.5	
687.1	CARBONDALE		UNDERCLAY	1.0	50.0	

MAPID: 05784509000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 33 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.159951 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.637819 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 735.8 **LOGGED (FT.):** 50.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1141 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
735.8			UNKNOWN	46.2	0.0
689.6	CARBONDALE	HERRIN	COAL	4.0	46.2

MAPID: 05784510000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 33 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.16029 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.638427 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 733.8 **LOGGED (FT.):** 49.3 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1142 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
733.8			UNKNOWN	48.2	0.0
685.6	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.1	48.2

MAPID: 05784511000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 33 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.16012 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.638152 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 735.2 **LOGGED (FT.):** 53.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1143 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
735.2			UNKNOWN	48.8	0.0
686.4	CARBONDALE	HERRIN	COAL	4.4	48.8

MAPID: 05784512000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 33 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.159945 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638371 DATE COLLECTED:

SURFACE ELEVATION (FT.): 734.1 LOGGED (FT.): 53.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1144 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.1			UNKNOWN	49.3	0.0	
684.8	CARBONDALE	HERRIN	COAL	4.0	49.3	

MAPID: 05784513000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 33 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.160078 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638627 DATE COLLECTED:

SURFACE ELEVATION (FT.): 734.0 LOGGED (FT.): 54.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1145 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.0			UNKNOWN	50.9	0.0	
683.1	CARBONDALE	HERRIN	COAL	3.3	50.9	

MAPID: 05784514000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 33 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.160236 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638838 DATE COLLECTED:

SURFACE ELEVATION (FT.): 733.8 LOGGED (FT.): 60.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1146 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.8			UNKNOWN	60.6	0.0	NO COAL

MAPID: 05784515000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 33 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.159859 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.638876 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 734.9 **LOGGED (FT.):** 56.4 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1147 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.9			UNKNOWN	52.7	0.0	
682.2	CARBONDALE	HERRIN	COAL	3.7	52.7	

MAPID: 05784516000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 33 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.160072 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.639104 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 734.2 **LOGGED (FT.):** 60.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1148 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.2			UNKNOWN	60.0	0.0	NO COAL

MAPID: 05784517000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 33 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.160409 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.639174 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 733.2 **LOGGED (FT.):** 55.6 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1158 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.2			UNKNOWN	52.1	0.0	
681.1	CARBONDALE	HERRIN	COAL	3.5	52.1	

MAPID: 05784518000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 33 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.160595 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.6389 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 733.8 **LOGGED (FT.):** 54.8 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1159 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.8			UNKNOWN	53.8	0.0	
680.0	CARBONDALE	HERRIN	COAL	1.0	53.8	VERY SOFT

MAPID: 05784519000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 33 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.160756 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.639117 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 733.6 **LOGGED (FT.):** 55.5 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1160 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.6			UNKNOWN	51.9	0.0	
681.7	CARBONDALE	HERRIN	COAL	3.6	51.9	

MAPID: 05784520000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 33 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.16027 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.639384 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 732.6 **LOGGED (FT.):** 55.6 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1066 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.6			UNKNOWN	51.6	0.0	
681.0	CARBONDALE	HERRIN	COAL	4.0	51.6	

MAPID: 05784521000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 33 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.16199 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.640881 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 729.9 **LOGGED (FT.):** 48.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1064 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
729.9			UNKNOWN	44.0	0.0
685.9	CARBONDALE	HERRIN	COAL	4.2	44.0

MAPID: 05784522000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 33 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.162639 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.6425 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 725.5 **LOGGED (FT.):** 51.5 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1063 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
725.5			UNKNOWN	47.2	0.0
678.3	CARBONDALE	HERRIN	COAL	4.3	47.2

MAPID: 05784607000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 33 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.159606 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.637046 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 736.7 **LOGGED (FT.):** 51.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1140 **WELL TYPE:** Coal Test
COMMENT: LOCATIONS DIG. FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
736.7			UNKNOWN	47.4	0.0
689.3	CARBONDALE	HERRIN	COAL	3.8	47.4

MAPID: 05786597000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 33 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW NE
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.168474 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.636834 DATE COLLECTED: 9 / 30 / 1959
 SURFACE ELEVATION (FT.): 732.1 LOGGED (FT.): 129.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 294 WELL TYPE: Coal Test
 COMMENT: FLAMINGO BOX 47

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.1	PLEISTOCENE		UNCONSOLIDATED	18.0	0.0	
714.1	PLEISTOCENE		CLAY	41.0	18.0	
673.1	CARBONDALE		SANDSTONE	7.0	59.0	
666.1	CARBONDALE		SANDY SHALE	54.0	66.0	HARD
612.1	CARBONDALE	ST. DAVID	LIMESTONE	0.3	120.0	HARD
611.8	CARBONDALE	TURNER MINE	DARK SHALE	1.5	120.3	SOFT
610.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	121.8	
609.1	CARBONDALE	SPRINGFIELD	COAL	4.3	123.0	
604.8	CARBONDALE		UNDERCLAY	1.7	127.3	

MAPID: 05784507000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:
 QUADRANGLE: FAIRVIEW LONGITUDE: -90.15914 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.63709 DATE COLLECTED: 4 / 17 / 1937
 SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 60.5 LOG TYPE: Drillers Log
 SOURCE: MIDLAND COAL CO. FARMWEST 30 WELL TYPE: Coal Test
 COMMENT: LOCATION DIGITIZED FROM CO. MAP 15

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.0	PLEISTOCENE		CLAY	18.1	0.0	
718.9	PLEISTOCENE		SANDY CLAY	20.9	18.1	
698.1	CARBONDALE		ARGILACEOUS SHALE	7.6	38.9	
690.4	CARBONDALE	HERRIN	COAL/CLAYSTONE	2.2	46.6	
688.3	CARBONDALE		UNDERCLAY	2.2	48.7	
686.1	CARBONDALE		SANDY SHALE	9.6	50.9	

MAPID: 05784553000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.156675

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633472

DATE COLLECTED: 4 / 20 / 1937

SURFACE ELEVATION (FT.): 738.0 LOGGED (FT.): 54.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 51

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.0	PLEISTOCENE		CLAY	12.3	0.0	
725.7	PLEISTOCENE		CLAY	3.7	12.3	
722.0	PLEISTOCENE		SANDY CLAY	15.8	16.0	
706.2	PLEISTOCENE		CLAY	5.1	31.8	SOFT
701.2	PLEISTOCENE		CLAY	3.5	36.8	HARD
697.7	PLEISTOCENE		SANDY CLAY	1.7	40.3	
696.0	CARBONDALE		GRAY SHALE	6.7	42.0	
689.4	CARBONDALE	HERRIN	COAL	3.0	48.6	
686.4	CARBONDALE		UNDERCLAY	2.7	51.6	

MAPID: 05784554000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.159036

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63347

DATE COLLECTED: 4 / 21 / 1937

SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 60.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 52

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.0	PLEISTOCENE		CLAY	15.7	0.0	
721.3	PLEISTOCENE		SANDY CLAY	44.6	15.7	

MAPID: 05784555000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.157798

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633469

DATE COLLECTED: 2 / 7 / 1946

SURFACE ELEVATION (FT.): 739.0 LOGGED (FT.): 61.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 204

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.0	PLEISTOCENE		SOIL	1.0	0.0	
738.0	PLEISTOCENE		CLAY	25.7	1.0	YELLOW
712.3	PLEISTOCENE		CLAY	11.9	26.7	GRAY
700.4	PLEISTOCENE		SANDY CLAY	22.7	38.6	

MAPID: 05784556000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.157849 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634238 DATE COLLECTED: 2 / 7 / 1946

SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 65.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 206 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.0	PLEISTOCENE		SOIL	1.0	0.0	
736.0	PLEISTOCENE		CLAY	9.3	1.0	
726.7	PLEISTOCENE		WOOD	2.5	10.3	
724.2	PLEISTOCENE		CLAY	26.1	12.8	
698.1	PLEISTOCENE		SANDY CLAY	26.4	38.9	

MAPID: 05784557000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.115638 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673463 DATE COLLECTED: 2 / 11 / 1945

SURFACE ELEVATION (FT.): 739.0 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 212 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.0	PLEISTOCENE		SOIL	1.0	0.0	
738.0	PLEISTOCENE		CLAY	5.0	1.0	GRAY
733.0	PLEISTOCENE		CLAY	5.0	6.0	YELLOW
728.0	PLEISTOCENE		CLAY	7.3	11.0	GRAY
720.7	PLEISTOCENE		SANDY CLAY	46.7	18.3	

MAPID: 05784558000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.159057 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635217 DATE COLLECTED: 2 / 5 / 1946

SURFACE ELEVATION (FT.): 738.0 LOGGED (FT.): 51.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 233 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.0	PLEISTOCENE		SOIL	1.0	0.0	
737.0	PLEISTOCENE		SANDY CLAY	10.0	1.0	
727.0	CARBONDALE		COAL	1.6	11.0	BROKEN TOP:ERODED
725.4	CARBONDALE		CLAYSTONE	22.7	12.6	
702.7	CARBONDALE		GRAY SHALE	10.0	35.3	
692.7	CARBONDALE	ANNA	DARK SHALE	2.4	45.3	
690.3	CARBONDALE	ANNA	BLACK SHALE	0.2	47.7	
690.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.9	47.9	
687.2	CARBONDALE		UNDERCLAY	0.9	50.8	

MAPID: 05784559000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.159016 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634326 DATE COLLECTED: 2 / 6 / 1946

SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 85.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 235 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.0	PLEISTOCENE		SOIL	1.0	0.0	
736.0	PLEISTOCENE		SANDY CLAY	10.0	1.0	
726.0	PLEISTOCENE		UNKNOWN	1.6	11.0	BROKEN COAL
724.4	PLEISTOCENE		SANDY CLAY	7.0	12.6	
717.4	PLEISTOCENE		CLAY	2.8	19.6	
714.6	PLEISTOCENE		SANDY CLAY	52.9	22.4	
661.7	PLEISTOCENE		CLAY	10.0	75.3	

MAPID: 0578456000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.155654 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634976 DATE COLLECTED: 4 / 2 / 1964

SURFACE ELEVATION (FT.): 739.1 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 983 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.1	PLEISTOCENE		SOIL	1.0	0.0	
738.1	PLEISTOCENE		CLAY	12.0	1.0	
726.1	PLEISTOCENE		SANDY CLAY	42.2	13.0	GRAY
683.9	PLEISTOCENE		SANDY CLAY	4.8	55.2	GREEN

MAPID: 05784561000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.155638 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635277 DATE COLLECTED: 4 / 3 / 1964

SURFACE ELEVATION (FT.): 739.1 LOGGED (FT.): 51.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 984 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.1	PLEISTOCENE		SOIL	1.0	0.0	
738.1	PLEISTOCENE		SANDY CLAY	13.9	1.0	YELLOW
724.2	PLEISTOCENE		SANDY CLAY	13.4	14.9	GRAY
710.8	PLEISTOCENE		CLAY, SAND & GRAVEL	13.4	28.3	
697.4	PLEISTOCENE		CLAY	7.5	41.7	
689.9	CARBONDALE	HERRIN	COAL	0.8	49.2	SOFT BROKEN; TOP ERODED
689.1	CARBONDALE		UNDERCLAY	1.0	50.0	

MAPID: 05784562000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.156007 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635181 DATE COLLECTED: 4 / 3 / 1964

SURFACE ELEVATION (FT.): 738.9 LOGGED (FT.): 50.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 987 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.9	PLEISTOCENE		SOIL	1.0	0.0	
737.9	PLEISTOCENE		CLAY	12.7	1.0	
725.2	PLEISTOCENE		SANDY CLAY	9.0	13.7	
716.2	PLEISTOCENE		SAND/CLAY	8.8	22.7	WITH WOOD
707.4	PLEISTOCENE		SANDY CLAY	15.0	31.5	
692.4	CARBONDALE	HERRIN	COAL	2.8	46.5	SOFT BROKEN; TOP ERODED
689.6	CARBONDALE		UNDERCLAY	1.0	49.3	

MAPID: 05784563000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.156379 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635049 DATE COLLECTED: 4 / 2 / 1964

SURFACE ELEVATION (FT.): 738.8 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 989 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.8	PLEISTOCENE		SOIL	1.0	0.0	
737.8	PLEISTOCENE		CLAY	12.0	1.0	
725.8	PLEISTOCENE		SANDY CLAY	26.8	13.0	GRAY
699.0	PLEISTOCENE		SANDY CLAY	10.2	39.8	GREEN

MAPID: 05784564000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.155604

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63398

DATE COLLECTED: 4 / 4 / 1964

SURFACE ELEVATION (FT.): 739.9 LOGGED (FT.): 50.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 994

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
739.9	PLEISTOCENE		SOIL	1.0	0.0
738.9	PLEISTOCENE		CLAY	15.2	1.0
723.7	PLEISTOCENE		CLAY & GRAVEL	7.0	16.2
716.7	CARBONDALE		SANDSTONE	2.3	23.2
714.4	CARBONDALE		BROWN SHALE	4.8	25.5
709.6	CARBONDALE		GRAY SHALE	13.3	30.3
696.3	CARBONDALE	ANNA	DARK SHALE	1.9	43.6
694.4	CARBONDALE	ANNA	BLACK SHALE	0.2	45.5
694.2	CARBONDALE	HERRIN	COAL	2.4	45.7
691.8	CARBONDALE	HERRIN	BLUE BAND	0.2	48.1
691.6	CARBONDALE	HERRIN	COAL	1.5	48.3
690.1	CARBONDALE		UNDERCLAY	1.0	49.8

MAPID: 05784565000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.156854

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633982

DATE COLLECTED: 4 / 4 / 1964

SURFACE ELEVATION (FT.): 738.7 LOGGED (FT.): 51.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 995

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
738.7	PLEISTOCENE		SOIL	1.0	0.0
737.7	PLEISTOCENE		CLAY	15.3	1.0
722.4	PLEISTOCENE		SANDY CLAY	15.5	16.3
706.9	CARBONDALE		GRAY SHALE	12.2	31.8
694.7	CARBONDALE	ANNA	DARK SHALE	2.6	44.0
692.1	CARBONDALE	HERRIN	COAL	2.3	46.6
689.8	CARBONDALE	HERRIN	BLUE BAND	0.2	48.9
689.6	CARBONDALE	HERRIN	COAL	1.3	49.1
688.3	CARBONDALE		UNDERCLAY	1.0	50.4

MAPID: 05784566000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.155571 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633476 DATE COLLECTED: 4 / 6 / 1964

SURFACE ELEVATION (FT.): 740.0 LOGGED (FT.): 53.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 996 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.0	PLEISTOCENE		SOIL	1.0	0.0	
739.0	PLEISTOCENE		CLAY	14.5	1.0	
724.5	PLEISTOCENE		SANDY CLAY	12.4	15.5	
712.1	CARBONDALE		SANDY SHALE	12.9	27.9	
699.2	CARBONDALE		GRAY SHALE	6.2	40.8	
693.0	CARBONDALE		CLAYSTONE	1.9	47.0	WHITE TOP
691.1	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.7	48.9	WHITE TOP
690.4	CARBONDALE	HERRIN	COAL	1.1	49.6	
689.3	CARBONDALE		UNDERCLAY	1.3	50.7	
688.0	CARBONDALE		GRAY SHALE	1.5	52.0	

MAPID: 05784567000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.157222 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633464 DATE COLLECTED: 4 / 6 / 1964

SURFACE ELEVATION (FT.): 738.8 LOGGED (FT.): 54.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 997 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.8	PLEISTOCENE		SOIL	1.0	0.0	
737.8	PLEISTOCENE		CLAY	13.5	1.0	
724.3	PLEISTOCENE		SANDY CLAY	29.0	14.5	
695.3	CARBONDALE		GRAY SHALE	4.9	43.5	
690.4	CARBONDALE	HERRIN	COAL	2.3	48.4	
688.1	CARBONDALE	HERRIN	BLUE BAND	0.2	50.7	
687.9	CARBONDALE	HERRIN	COAL	1.5	50.9	
686.4	CARBONDALE		UNDERCLAY	1.6	52.4	

MAPID: 05784568000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.157445 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.633678 DATE COLLECTED: 4 / 6 / 1964
SURFACE ELEVATION (FT.): 737.9 LOGGED (FT.): 50.6 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 999 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.9	PLEISTOCENE		SOIL	1.0	0.0	
736.9	PLEISTOCENE		CLAY	15.5	1.0	
721.4	PLEISTOCENE		SANDY CLAY	24.4	16.5	
697.0	PLEISTOCENE		BOULDER	0.8	40.9	
696.2	PLEISTOCENE		CLAY & GRAVEL	1.9	41.7	
694.3	CARBONDALE	BRERETON	LIMESTONE	1.7	43.6	
692.6	CARBONDALE	HERRIN	COAL	2.3	45.3	
690.3	CARBONDALE	HERRIN	BLUE BAND	0.2	47.6	
690.1	CARBONDALE	HERRIN	COAL	1.6	47.8	
688.5	CARBONDALE		UNDERCLAY	1.2	49.4	

MAPID: 05784569000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.15914 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.63709 DATE COLLECTED:
SURFACE ELEVATION (FT.): 736.6 LOGGED (FT.): 48.8 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 30 WELL TYPE: Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.6			UNKNOWN	46.6	0.0	
690.0	CARBONDALE	HERRIN	COAL	2.2	46.6	

MAPID: 05784570000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.156802 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.634981 DATE COLLECTED:
SURFACE ELEVATION (FT.): 738.6 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1018 WELL TYPE: Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.6			UNKNOWN	55.0	0.0	NO COAL

MAPID: 05784571000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.157123 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.634866 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 737.6 **LOGGED (FT.):** 60.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1021 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.6			UNKNOWN	60.0	0.0	NO COAL

MAPID: 05784572000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.157483 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.634972 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 737.8 **LOGGED (FT.):** 55.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1022 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.8			UNKNOWN	55.0	0.0	NO COAL

MAPID: 05784573000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.157518 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.63522 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 737.8 **LOGGED (FT.):** 55.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1023 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.8			UNKNOWN	55.0	0.0	NO COAL

MAPID: 05784574000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.157672 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635445 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 738.0 **LOGGED (FT.):** 60.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1025 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.0			UNKNOWN	60.0	0.0	NO COAL

MAPID: 05784575000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.158074 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635459 DATE COLLECTED:

SURFACE ELEVATION (FT.): 738.0 LOGGED (FT.): 50.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1028 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.0			UNKNOWN	46.2	0.0	
691.8	CARBONDALE	HERRIN	COAL/CLAYSTONE	4.2	46.2	WHITE TOP

MAPID: 05784576000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.158336 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635651 DATE COLLECTED:

SURFACE ELEVATION (FT.): 737.8 LOGGED (FT.): 51.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1029 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.8			UNKNOWN	46.8	0.0	
691.0	CARBONDALE		CLAYSTONE	4.2	46.8	WHITE TOP

MAPID: 05784577000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.158172 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635892 DATE COLLECTED:

SURFACE ELEVATION (FT.): 738.2 LOGGED (FT.): 50.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1030 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.2			UNKNOWN	46.2	0.0	
692.0	CARBONDALE		CLAYSTONE	2.4	46.2	WHITE TOP
689.6	CARBONDALE	HERRIN	COAL	1.7	48.6	

MAPID: 05784578000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.15852 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635879 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 738.4 **LOGGED (FT.):** 52.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1031 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
738.4			UNKNOWN	49.9	0.0
688.5	CARBONDALE	HERRIN	COAL	2.8	49.9

MAPID: 05784579000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.158713 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635685 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 738.2 **LOGGED (FT.):** 50.6 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1032 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
738.2			UNKNOWN	47.0	0.0
691.2	CARBONDALE	HERRIN	COAL	3.6	47.0

MAPID: 05784580000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.158584 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635437 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 737.4 **LOGGED (FT.):** 50.8 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1033 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
737.4			UNKNOWN	46.5	0.0
690.9	CARBONDALE	HERRIN	COAL	4.3	46.5

MAPID: 05784581000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.158315

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63527

DATE COLLECTED:

SURFACE ELEVATION (FT.): 738.2 LOGGED (FT.): 51.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1034

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.2			UNKNOWN	47.3	0.0	
690.9	CARBONDALE		CLAYSTONE	2.3	47.3	WHITE TOP
688.6	CARBONDALE	HERRIN	COAL	1.7	49.6	

MAPID: 05784582000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.157992

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635198

DATE COLLECTED:

SURFACE ELEVATION (FT.): 738.9 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1035

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.9			UNKNOWN	55.0	0.0	NO COAL

MAPID: 05784583000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.158229

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635009

DATE COLLECTED:

SURFACE ELEVATION (FT.): 738.3 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1036

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.3			UNKNOWN	55.0	0.0	NO COAL

MAPID: 05784584000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.158544 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635043 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 737.9 **LOGGED (FT.):** 53.9 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1037 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN	COMMENT
737.9			UNKNOWN	53.9	0.0	NO COAL

MAPID: 05784585000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.15868 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635186 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 738.2 **LOGGED (FT.):** 50.9 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1038 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN	COMMENT
738.2			UNKNOWN	46.7	0.0	
691.5	CARBONDALE	HERRIN	COAL	4.2	46.7	

MAPID: 05784586000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.158913 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.634953 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 738.1 **LOGGED (FT.):** 55.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1039 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN	COMMENT
738.1			UNKNOWN	55.0	0.0	NO COAL

MAPID: 05784587000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.155337 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635176 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 739.7 **LOGGED (FT.):** 55.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1041 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.7			UNKNOWN	55.0	0.0	NO COAL

MAPID: 05784589000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.15781 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.633645 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 738.0 **LOGGED (FT.):** 59.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1100 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.0			UNKNOWN	59.0	0.0	NO COAL

MAPID: 05784590000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.157668 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.633936 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 737.8 **LOGGED (FT.):** 51.3 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1101 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.8			UNKNOWN	47.3	0.0	
690.5	CARBONDALE	HERRIN	COAL	4.0	47.3	

MAPID: 05784591000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.158055

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63387

DATE COLLECTED:

SURFACE ELEVATION (FT.): 738.2 LOGGED (FT.): 51.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1102

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.2			UNKNOWN	51.5	0.0	NO COAL

MAPID: 05784592000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.157898

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634153

DATE COLLECTED:

SURFACE ELEVATION (FT.): 737.9 LOGGED (FT.): 51.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1103

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.9			UNKNOWN	48.0	0.0	
689.9	CARBONDALE	HERRIN	COAL/CLAYSTONE	2.4	48.0	
687.5	CARBONDALE	HERRIN	COAL	1.2	50.4	SOFT OR SHALY

MAPID: 05784593000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.15826

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63412

DATE COLLECTED:

SURFACE ELEVATION (FT.): 737.9 LOGGED (FT.): 52.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1104

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.9			UNKNOWN	52.0	0.0	NO COAL

MAPID: 05784594000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.158158 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.634433 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 738.0 **LOGGED (FT.):** 51.5 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1105 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.0			UNKNOWN	51.5	0.0	NO COAL

MAPID: 05784595000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.157757 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.634457 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 737.8 **LOGGED (FT.):** 60.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1106 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.8			UNKNOWN	60.2	0.0	NO COAL

MAPID: 05784596000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.157515 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.634202 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 737.2 **LOGGED (FT.):** 50.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1107 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.2			UNKNOWN	46.8	0.0	
690.4	CARBONDALE	HERRIN	COAL	3.9	46.8	

MAPID: 05784597000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.157406 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634492 DATE COLLECTED:

SURFACE ELEVATION (FT.): 737.2 LOGGED (FT.): 50.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1108 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.2			UNKNOWN	50.7	0.0	NO COAL

MAPID: 05784598000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.157124 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634242 DATE COLLECTED:

SURFACE ELEVATION (FT.): 737.3 LOGGED (FT.): 49.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1109 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.3			UNKNOWN	45.0	0.0	
692.3	CARBONDALE	HERRIN	COAL	4.1	45.0	

MAPID: 05784599000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.15699 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634536 DATE COLLECTED:

SURFACE ELEVATION (FT.): 738.2 LOGGED (FT.): 52.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1110 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.2			UNKNOWN	52.0	0.0	NO COAL

MAPID: 0578460000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.156737 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634305 DATE COLLECTED:

SURFACE ELEVATION (FT.): 739.2 LOGGED (FT.): 50.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1111 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.2			UNKNOWN	46.6	0.0	
692.6	CARBONDALE	HERRIN	COAL	3.6	46.6	

MAPID: 05784601000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.156617 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634585 DATE COLLECTED:

SURFACE ELEVATION (FT.): 738.9 LOGGED (FT.): 52.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1112 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.9			UNKNOWN	52.0	0.0	NO COAL

MAPID: 05784602000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.156336 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634363 DATE COLLECTED:

SURFACE ELEVATION (FT.): 739.2 LOGGED (FT.): 49.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1113 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.2			UNKNOWN	45.6	0.0	
693.6	CARBONDALE	HERRIN	COAL	3.8	45.6	

MAPID: 05784603000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.156237 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634658 DATE COLLECTED:

SURFACE ELEVATION (FT.): 738.9 LOGGED (FT.): 51.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1114 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.9			UNKNOWN	50.5	0.0	
688.4	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.5	50.5	

MAPID: 05784604000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.155949 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634431 DATE COLLECTED:

SURFACE ELEVATION (FT.): 739.3 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1115 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.3			UNKNOWN	46.1	0.0	
693.2	CARBONDALE	HERRIN	COAL	3.9	46.1	

MAPID: 05784605000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.155825 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634713 DATE COLLECTED:

SURFACE ELEVATION (FT.): 739.2 LOGGED (FT.): 49.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1116 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.2			UNKNOWN	45.9	0.0	
693.3	CARBONDALE	HERRIN	COAL	3.5	45.9	SOFT

MAPID: 05784606000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.155394 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634729 DATE COLLECTED:

SURFACE ELEVATION (FT.): 739.5 LOGGED (FT.): 49.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1117 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 16

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.5			UNKNOWN	45.0	0.0	
694.5	CARBONDALE		CLAYSTONE	0.5	45.0	WHITE TOP
694.0	CARBONDALE	HERRIN	COAL	3.6	45.5	

MAPID: 05784608000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.149741 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629747 DATE COLLECTED: 4 / 14 / 1937

SURFACE ELEVATION (FT.): 743.0 LOGGED (FT.): 52.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.0	PLEISTOCENE		CLAY	12.2	0.0	
730.8	PLEISTOCENE		CLAY	3.1	12.2	SOFT
727.7	PLEISTOCENE		SANDY CLAY	8.3	15.3	
719.5	PLEISTOCENE		SAND & GRAVEL	20.5	23.5	
699.0	PLEISTOCENE		CLAY	2.6	44.0	
696.4	CARBONDALE	HERRIN	COAL	1.1	46.6	VERY SOFT MUSHY, TOP ERODED
695.3	CARBONDALE		UNDERCLAY	4.5	47.7	

MAPID: 05784609000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.149552

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633492

DATE COLLECTED: 4 / 13 / 1937

SURFACE ELEVATION (FT.): 741.0 LOGGED (FT.): 47.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.0	PLEISTOCENE		CLAY	13.9	0.0	
727.1	PLEISTOCENE		SANDY CLAY	17.6	13.9	YELLOW
709.5	PLEISTOCENE		SANDY CLAY	8.7	31.5	GRAY
700.8	PLEISTOCENE		BOULDER	1.4	40.2	
699.4	PLEISTOCENE		CLAY	0.2	41.6	
699.2	CARBONDALE		CLAYSTONE	0.4	41.8	WITH SLATE
698.9	CARBONDALE	HERRIN	COAL	2.7	42.1	SOFT
696.2	CARBONDALE	HERRIN	SHALE	0.3	44.8	
695.9	CARBONDALE	HERRIN	COAL	1.5	45.1	SOFT
694.4	CARBONDALE		UNDERCLAY	0.9	46.6	

MAPID: 05784610000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145012

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629773

DATE COLLECTED: 4 / 14 / 1937

SURFACE ELEVATION (FT.): 744.0 LOGGED (FT.): 57.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 27

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.0	PLEISTOCENE		CLAY	17.3	0.0	
726.7	PLEISTOCENE		CLAY, SAND & GRAVEL	16.1	17.3	
710.6	PLEISTOCENE		SANDY CLAY	6.9	33.4	
703.7	CARBONDALE		GRAY SHALE	13.1	40.3	
690.6	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.5	53.4	
690.1	CARBONDALE	HERRIN	COAL	0.6	53.9	SOFT
689.5	CARBONDALE	HERRIN	COAL	1.6	54.5	
688.0	CARBONDALE	HERRIN	COAL	0.6	56.0	VERY SOFT
687.3	CARBONDALE		UNDERCLAY	0.8	56.7	

MAPID: 05784611000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144922 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633274 DATE COLLECTED: 4 / 19 / 1937

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 62.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 33 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.0	PLEISTOCENE		CLAY	20.3	0.0	
724.7	PLEISTOCENE		SANDY CLAY	7.2	20.3	YEL SOFT
717.5	PLEISTOCENE		SANDY CLAY	2.4	27.5	GRAY
715.1	PLEISTOCENE		SANDY CLAY	3.7	29.9	
711.5	CARBONDALE		SANDY SHALE	9.3	33.5	CLAYEY
702.2	CARBONDALE		SANDY SHALE	13.3	42.8	
688.9	CARBONDALE		SANDSTONE	0.9	56.1	
688.0	CARBONDALE		CLAYSTONE	1.1	57.0	
687.0	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.1	58.0	
685.9	CARBONDALE		CLAYSTONE	2.2	59.1	SOFT
683.8	CARBONDALE		GRAY SHALE	1.0	61.2	

MAPID: 05784612000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147289 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.631568 DATE COLLECTED: 4 / 19 / 1937

SURFACE ELEVATION (FT.): 742.0 LOGGED (FT.): 62.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 34 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.0	PLEISTOCENE		CLAY	19.4	0.0	
722.6	PLEISTOCENE		SANDY CLAY	2.8	19.4	SOFT GREENISH
719.8	PLEISTOCENE		SANDY CLAY	12.9	22.2	SOFT
706.8	CARBONDALE		SANDSTONE	1.7	35.2	SOFT
705.2	CARBONDALE		SANDSTONE	0.5	36.8	HARD
704.7	CARBONDALE		SANDY SHALE	15.8	37.3	
688.8	CARBONDALE		DARK SHALE	0.6	53.2	
688.3	CARBONDALE	BRERETON	LIMESTONE	1.8	53.7	HARD
686.4	CARBONDALE		CLAYSTONE	0.9	55.6	SOFT
685.5	CARBONDALE	HERRIN	COAL	2.5	56.5	
683.0	CARBONDALE	HERRIN	SHALE	0.2	59.0	
682.8	CARBONDALE	HERRIN	COAL	1.8	59.2	SOFT
681.0	CARBONDALE		UNDERCLAY	1.1	61.0	

MAPID: 05784613000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142621 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.631557 DATE COLLECTED: 4 / 24 / 1937

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 64.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 44 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0	PLEISTOCENE		CLAY	15.8	0.0	
731.2	PLEISTOCENE		CLAY, SAND & GRAVEL	19.4	15.8	
711.7	PLEISTOCENE		BOULDER	4.8	35.3	
707.0	PLEISTOCENE		SANDY CLAY	4.1	40.0	YELLOW
702.9	PLEISTOCENE		SANDY CLAY	11.1	44.1	GRAY
691.9	CARBONDALE	BRERETON	LIMESTONE	4.3	55.1	HARD
687.6	CARBONDALE		CLAYSTONE	0.5	59.4	
687.2	CARBONDALE	HERRIN	COAL	2.4	59.8	
684.7	CARBONDALE	HERRIN	SHALE	0.2	62.3	
684.6	CARBONDALE	HERRIN	COAL	1.5	62.4	
683.1	CARBONDALE		UNDERCLAY	0.5	63.9	

MAPID: 05784614000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145011 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626158 DATE COLLECTED: 4 / 26 / 1937

SURFACE ELEVATION (FT.): 739.0 LOGGED (FT.): 52.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 47 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.0	PLEISTOCENE		CLAY	19.4	0.0	
719.6	PLEISTOCENE		SANDY CLAY	3.6	19.4	YELLOW
716.1	PLEISTOCENE		SANDY CLAY	2.3	22.9	GRAY
713.8	CARBONDALE		SANDY SHALE	1.0	25.2	
712.8	CARBONDALE		SANDSTONE	0.3	26.2	SOFT
712.5	CARBONDALE		GRAY SHALE	21.0	26.5	
691.5	CARBONDALE	HERRIN	COAL	2.9	47.5	
688.6	CARBONDALE		UNDERCLAY	1.6	50.4	

MAPID: 05784615000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.149943

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626129

DATE COLLECTED: 4 / 28 / 1937

SURFACE ELEVATION (FT.): 739.0 LOGGED (FT.): 48.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 49

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.0	PLEISTOCENE		CLAY	18.6	0.0	
720.4	PLEISTOCENE		SAND & GRAVEL	4.4	18.6	
716.1	CARBONDALE		SANDSTONE	0.3	22.9	VERY HARD
715.8	CARBONDALE		SANDY SHALE	4.2	23.2	YELLOW
711.6	CARBONDALE		SANDY SHALE	16.6	27.4	GRAY
695.1	CARBONDALE	HERRIN	COAL	2.9	43.9	
692.2	CARBONDALE	HERRIN	SHALE	0.2	46.8	
692.0	CARBONDALE	HERRIN	COAL	1.4	47.0	SOFT
690.6	CARBONDALE		UNDERCLAY	0.4	48.4	

MAPID: 05784616000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145621

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633265

DATE COLLECTED: 4 / 23 / 1937

SURFACE ELEVATION (FT.): 744.0 LOGGED (FT.): 61.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 54

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.0	PLEISTOCENE		CLAY	15.0	0.0	
729.0	PLEISTOCENE		SANDY CLAY	8.2	15.0	
720.8	PLEISTOCENE		SAND & GRAVEL	5.2	23.2	
715.6	PLEISTOCENE		SANDY CLAY	6.2	28.4	
709.4	CARBONDALE		GRAY SHALE	22.3	34.6	
687.1	CARBONDALE	HERRIN	COAL	2.6	56.9	
684.6	CARBONDALE	HERRIN	CLAYSTONE	0.1	59.4	
684.4	CARBONDALE	HERRIN	COAL	1.6	59.6	
682.9	CARBONDALE		UNDERCLAY	0.7	61.1	

MAPID: 05784617000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142528 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633293 DATE COLLECTED: 10 / 22 / 1945

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 96 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0	PLEISTOCENE		SOIL	2.0	0.0	
744.0	PLEISTOCENE		CLAY	18.0	2.0	
726.0	PLEISTOCENE		BOULDER	1.0	20.0	
725.0	PLEISTOCENE		CLAY & GRAVEL	5.0	21.0	
720.0	PLEISTOCENE		CLAY	6.4	26.0	
713.6	CARBONDALE		COAL	0.2	32.4	
713.4	CARBONDALE		GRAY SHALE	24.4	32.6	
689.0	CARBONDALE	ANNA	DARK SHALE	2.0	57.0	
687.0	CARBONDALE	ANNA	BLACK SHALE	0.4	59.0	
686.6	CARBONDALE	HERRIN	COAL	4.1	59.4	HARD
682.5	CARBONDALE		UNDERCLAY	1.5	63.5	

MAPID: 05784618000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142604 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629786 DATE COLLECTED: 10 / 23 / 1945

SURFACE ELEVATION (FT.): 744.0 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 98 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.0	PLEISTOCENE		SOIL	2.0	0.0	
742.0	PLEISTOCENE		CLAY	17.0	2.0	
725.0	PLEISTOCENE		BOULDER	1.0	19.0	
724.0	PLEISTOCENE		CLAY	6.0	20.0	
718.0	PLEISTOCENE		CLAY & GRAVEL	9.0	26.0	
709.0	PLEISTOCENE		CLAY	28.0	35.0	GRAY
681.0	PLEISTOCENE		CLAY	3.0	63.0	DARK
678.0	PLEISTOCENE		WOOD/CLAY	6.0	66.0	
672.0	PLEISTOCENE		CLAY	9.0	72.0	HARD

MAPID: 05784619000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144993

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.631572

DATE COLLECTED: 10 / 24 / 1945

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 54.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 100

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.0	PLEISTOCENE		SOIL	2.0	0.0	
743.0	PLEISTOCENE		CLAY	17.0	2.0	YELLOW
726.0	PLEISTOCENE		CLAY	6.0	19.0	GRAY
720.0	CARBONDALE		RED SANDSTONE	4.0	25.0	
716.0	CARBONDALE		CLAYSTONE	7.0	29.0	
709.0	CARBONDALE		GRAY SHALE	7.5	36.0	
701.5	CARBONDALE	BRERETON	LIMESTONE	3.6	43.5	
697.9	CARBONDALE		CLAYSTONE	1.1	47.1	
696.8	CARBONDALE	HERRIN	COAL	4.4	48.2	
692.4	CARBONDALE		UNDERCLAY	1.4	52.6	

MAPID: 05784620000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147341

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629763

DATE COLLECTED: 10 / 25 / 1945

SURFACE ELEVATION (FT.): 744.0 LOGGED (FT.): 63.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 102

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.0	PLEISTOCENE		SOIL	2.0	0.0	
742.0	PLEISTOCENE		CLAY	17.0	2.0	
725.0	PLEISTOCENE		CLAY & GRAVEL	5.0	19.0	
720.0	PLEISTOCENE		SANDY CLAY	6.0	24.0	
714.0	PLEISTOCENE		CLAY	6.0	30.0	
708.0	CARBONDALE		SANDSTONE	4.0	36.0	
704.0	CARBONDALE		GRAY SHALE	15.4	40.0	
688.6	CARBONDALE	BRERETON	LIMESTONE	2.6	55.4	
686.0	CARBONDALE		CLAYSTONE	0.2	58.0	WHITE TOP
685.8	CARBONDALE	HERRIN	COAL	3.8	58.2	
682.0	CARBONDALE		UNDERCLAY	1.2	62.0	

MAPID: 05784621000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.15207 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629754 DATE COLLECTED: 10 / 16 / 1945

SURFACE ELEVATION (FT.): 741.0 LOGGED (FT.): 48.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 104 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.0	PLEISTOCENE		SOIL	2.5	0.0	
738.5	PLEISTOCENE		CLAY	7.5	2.5	
731.0	PLEISTOCENE		CLAY	1.5	10.0	AND COAL
729.5	PLEISTOCENE		CLAY	10.8	11.5	
718.7	PLEISTOCENE		BOULDER	0.7	22.3	
718.0	PLEISTOCENE		SAND/CLAY	3.0	23.0	
715.0	PLEISTOCENE		CLAY	4.0	26.0	
711.0	CARBONDALE		SANDSTONE	6.0	30.0	
705.0	CARBONDALE		GRAY SHALE	6.0	36.0	
699.0	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.6	42.0	
698.4	CARBONDALE	HERRIN	COAL	2.4	42.6	
696.0	CARBONDALE		UNDERCLAY	3.0	45.0	

MAPID: 05784622000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14969 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.631574 DATE COLLECTED: 10 / 25 / 1945

SURFACE ELEVATION (FT.): 743.0 LOGGED (FT.): 54.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 123 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.0	PLEISTOCENE		SOIL	1.0	0.0	
742.0	PLEISTOCENE		CLAY	28.6	1.0	YELLOW
713.4	PLEISTOCENE		CLAY	10.4	29.6	GRAY
703.0	CARBONDALE		GRAY SHALE	8.0	40.0	
695.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	4.1	48.0	
690.9	CARBONDALE		UNDERCLAY	2.7	52.1	

MAPID: 05784623000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.152048

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633227

DATE COLLECTED: 10 / 26 / 1945

SURFACE ELEVATION (FT.): 741.0 LOGGED (FT.): 48.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 125

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.0	PLEISTOCENE		SOIL	1.0	0.0	
740.0	PLEISTOCENE		CLAY	28.6	1.0	& BOULDERS
711.4	PLEISTOCENE		CLAY	4.4	29.6	
707.0	CARBONDALE		GRAY SHALE	6.0	34.0	
701.0	CARBONDALE	ANNA	DARK SHALE	2.0	40.0	
699.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	4.0	42.0	
695.0	CARBONDALE		UNDERCLAY	2.6	46.0	

MAPID: 05784624000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.152065

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.631561

DATE COLLECTED: 10 / 26 / 1945

SURFACE ELEVATION (FT.): 740.0 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 127

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.0	PLEISTOCENE		SOIL	1.0	0.0	
739.0	PLEISTOCENE		SANDY CLAY	19.6	1.0	YELLOW
719.4	PLEISTOCENE		SANDY CLAY	8.0	20.6	GRAY
711.4	CARBONDALE		GRAY SHALE	16.4	28.6	
695.0	CARBONDALE		DARK SHALE	5.0	45.0	
690.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.0	50.0	
688.0	CARBONDALE		UNDERCLAY	3.0	52.0	

MAPID: 05784625000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.154326

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634302

DATE COLLECTED: 2 / 8 / 1946

SURFACE ELEVATION (FT.): 739.0 LOGGED (FT.): 47.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 210

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.0	PLEISTOCENE		SOIL	1.0	0.0	
738.0	PLEISTOCENE		CLAY	5.0	1.0	YELLOW
733.0	PLEISTOCENE		CLAY	15.3	6.0	GRAY
717.7	CARBONDALE		GRAY SHALE	21.0	21.3	
696.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.5	42.3	
694.2	CARBONDALE	HERRIN	BLUE BAND	0.2	44.8	
694.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.4	45.0	
692.6	CARBONDALE		UNDERCLAY	0.6	46.4	

MAPID: 05784626000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.15082

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633504

DATE COLLECTED: 5 / 16 / 1947

SURFACE ELEVATION (FT.): 740.0 LOGGED (FT.): 43.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 278

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.0	PLEISTOCENE		SOIL	1.0	0.0	
739.0	PLEISTOCENE		CLAY	17.6	1.0	YELLOW
721.4	PLEISTOCENE		CLAY	9.2	18.6	GRAY
712.2	CARBONDALE		GRAY SHALE	7.9	27.8	
704.3	CARBONDALE	ANNA	BLACK SHALE	2.2	35.7	
702.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	3.9	37.9	
698.2	CARBONDALE		UNDERCLAY	2.1	41.8	

MAPID: 05784627000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.148628 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.633467 DATE COLLECTED: 3 / 26 / 1964
SURFACE ELEVATION (FT.): 741.2 LOGGED (FT.): 51.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 960 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
741.2	PLEISTOCENE		SOIL	1.0	0.0
740.2	PLEISTOCENE		CLAY	16.0	1.0
724.2	PLEISTOCENE		CLAY & GRAVEL	5.0	17.0
719.2	PLEISTOCENE		BOULDER	1.0	22.0
718.2	PLEISTOCENE		CLAY	1.6	23.0
716.6	CARBONDALE		SANDY SHALE	12.9	24.6
703.7	CARBONDALE		SANDSTONE	1.3	37.5
702.4	CARBONDALE		GRAY SHALE	6.7	38.8
695.7	CARBONDALE		CLAYSTONE	1.3	45.5 WHITE TOP
694.4	CARBONDALE	HERRIN	COAL	2.6	46.8
691.8	CARBONDALE		UNDERCLAY	1.6	49.4

MAPID: 05784628000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.152043 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.633467 DATE COLLECTED: 4 / 4 / 1964
SURFACE ELEVATION (FT.): 741.0 LOGGED (FT.): 45.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 992 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
741.0	PLEISTOCENE		SOIL	1.0	0.0
740.0	PLEISTOCENE		CLAY	13.5	1.0
726.5	PLEISTOCENE		SANDY CLAY	17.5	14.5
709.0	CARBONDALE		GRAY SHALE	1.9	32.0
707.1	CARBONDALE	BRERETON	LIMESTONE	4.9	33.9
702.2	CARBONDALE		CLAYSTONE	0.7	38.8 WHITE TOP
701.5	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.4	39.5 WHITE TOP
701.1	CARBONDALE	HERRIN	COAL	2.8	39.9
698.3	CARBONDALE		UNDERCLAY	2.3	42.7

MAPID: 05784629000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.153307 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.633474 DATE COLLECTED: 4 / 4 / 1964
SURFACE ELEVATION (FT.): 742.3 LOGGED (FT.): 50.7 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 993 WELL TYPE: Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.3	PLEISTOCENE		SOIL	1.0	0.0	
741.3	PLEISTOCENE		CLAY	27.1	1.0	
714.2	CARBONDALE		SANDY SHALE	5.1	28.1	
709.1	CARBONDALE		GRAY SHALE	11.4	33.2	
697.7	CARBONDALE	ANNA	DARK SHALE	1.0	44.6	
696.7	CARBONDALE	HERRIN	COAL	2.4	45.6	
694.3	CARBONDALE	HERRIN	BLUE BAND	0.2	48.0	
694.1	CARBONDALE	HERRIN	COAL	1.5	48.2	
692.6	CARBONDALE		UNDERCLAY	1.0	49.7	

MAPID: 05784630000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.154979 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.635236 DATE COLLECTED:
SURFACE ELEVATION (FT.): 740.2 LOGGED (FT.): 49.4 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1044 WELL TYPE: Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.2			UNKNOWN	45.3	0.0	
694.9	CARBONDALE		CLAYSTONE	1.1	45.3	WHITE TOP
693.8	CARBONDALE	HERRIN	COAL	3.0	46.4	

MAPID: 05784631000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.155107 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.634998 DATE COLLECTED:
SURFACE ELEVATION (FT.): 740.0 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1045 WELL TYPE: Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.0			UNKNOWN	55.0	0.0	NO COAL

MAPID: 05784632000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.154782 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635039 DATE COLLECTED:

SURFACE ELEVATION (FT.): 740.2 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1046 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.2			UNKNOWN	55.0	0.0	NO COAL

MAPID: 05784633000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.154613 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635247 DATE COLLECTED:

SURFACE ELEVATION (FT.): 740.2 LOGGED (FT.): 47.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1047 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.2			UNKNOWN	43.0	0.0	
697.2	CARBONDALE		CLAYSTONE	1.5	43.0	WHITE TOP
695.7	CARBONDALE	HERRIN	COAL	2.8	44.5	

MAPID: 05784634000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.154467 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635082 DATE COLLECTED:

SURFACE ELEVATION (FT.): 740.1 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1048 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.1			UNKNOWN	55.0	0.0	NO COAL

MAPID: 05784635000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143216

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637179

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.7 LOGGED (FT.): 59.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1070

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.7			UNKNOWN	55.1	0.0	
690.6	CARBONDALE	HERRIN	COAL	4.2	55.1	

MAPID: 05784636000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14443

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637189

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.7 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1072

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.7			UNKNOWN	65.0	0.0	NO COAL

MAPID: 05784637000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143564

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637183

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 71.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1077

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0			UNKNOWN	71.0	0.0	NO COAL

MAPID: 05784638000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143967 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637305 DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.2 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1082 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.2			UNKNOWN	65.0	0.0	NO COAL

MAPID: 05784639000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.154999 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634712 DATE COLLECTED:

SURFACE ELEVATION (FT.): 740.9 LOGGED (FT.): 48.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1118 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.9			UNKNOWN	44.1	0.0	
696.8	CARBONDALE		CLAYSTONE	1.4	44.1	WHITE TOP
695.4	CARBONDALE	HERRIN	COAL	2.7	45.5	

MAPID: 05784640000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.154652 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634769 DATE COLLECTED:

SURFACE ELEVATION (FT.): 741.2 LOGGED (FT.): 49.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1119 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.2			UNKNOWN	45.3	0.0	
695.9	CARBONDALE		CLAYSTONE	0.2	45.3	WHITE TOP
695.7	CARBONDALE	HERRIN	COAL	3.7	45.5	

MAPID: 05784641000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.154305 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634835 DATE COLLECTED:

SURFACE ELEVATION (FT.): 741.1 LOGGED (FT.): 48.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1120 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.1			UNKNOWN	44.9	0.0	
696.2	CARBONDALE	HERRIN	COAL	4.0	44.9	

MAPID: 05784642000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.154101 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635076 DATE COLLECTED:

SURFACE ELEVATION (FT.): 740.6 LOGGED (FT.): 56.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1121 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.6			UNKNOWN	56.0	0.0	NO COAL

MAPID: 05784643000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.153929 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63485 DATE COLLECTED:

SURFACE ELEVATION (FT.): 741.6 LOGGED (FT.): 48.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1122 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.6			UNKNOWN	43.9	0.0	
697.7	CARBONDALE	HERRIN	COAL	4.1	43.9	

MAPID: 05784644000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.15375 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635122 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 741.0 **LOGGED (FT.):** 60.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1123 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.0			UNKNOWN	60.0	0.0	NO COAL

MAPID: 05784645000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.140938 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.637175 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 744.9 **LOGGED (FT.):** 68.2 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1161 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.9			UNKNOWN	63.9	0.0	
681.0	CARBONDALE	HERRIN	COAL	4.3	63.9	

MAPID: 05784646000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.141888 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.63613 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 747.4 **LOGGED (FT.):** 76.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1172 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.4			UNKNOWN	76.0	0.0	NO COAL

MAPID: 05784647000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141891

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63414

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.2 LOGGED (FT.): 63.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1174

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.2			UNKNOWN	58.7	0.0	
688.5	CARBONDALE	HERRIN	COAL	4.3	58.7	

MAPID: 05784648000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141901

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635147

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.1 LOGGED (FT.): 61.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1173

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.1			UNKNOWN	56.9	0.0	
690.2	CARBONDALE	HERRIN	COAL	4.3	56.9	

MAPID: 05784649000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14324

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633479

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.9 LOGGED (FT.): 48.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1175

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.9			UNKNOWN	45.3	0.0	
701.6	CARBONDALE		CLAYSTONE	0.5	45.3	WHITE TOP
701.1	CARBONDALE	HERRIN	COAL/CLAYSTONE	3.0	45.8	

MAPID: 0578465000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141306

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636999

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.5 LOGGED (FT.): 67.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1178

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.5			UNKNOWN	63.6	0.0	
682.9	CARBONDALE	HERRIN	COAL	4.2	63.6	

MAPID: 05784651000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141649

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636879

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.7 LOGGED (FT.): 67.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1179

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.7			UNKNOWN	63.2	0.0	
684.5	CARBONDALE	HERRIN	COAL	4.2	63.2	

MAPID: 05784652000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141383

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636698

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.7 LOGGED (FT.): 67.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1180

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.7			UNKNOWN	63.4	0.0	
683.3	CARBONDALE	HERRIN	COAL	3.9	63.4	

MAPID: 05784653000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141058

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636804

DATE COLLECTED:

SURFACE ELEVATION (FT.): 740.4 LOGGED (FT.): 62.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1181

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.4			UNKNOWN	58.6	0.0	
681.8	CARBONDALE	HERRIN	COAL	4.0	58.6	

MAPID: 05784654000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141924

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63643

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1184

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0			UNKNOWN	70.0	0.0	NO COAL

MAPID: 05784655000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141882

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636654

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.3 LOGGED (FT.): 65.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1185

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.3			UNKNOWN	61.1	0.0	
686.2	CARBONDALE	HERRIN	COAL	4.1	61.1	

MAPID: 05784656000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141373

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636389

DATE COLLECTED:

SURFACE ELEVATION (FT.): 682.7 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1186

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.7			UNKNOWN	61.2	0.0	
621.5	CARBONDALE	HERRIN	COAL	3.8	61.2	SOFT

MAPID: 05784657000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141377

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636096

DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.4 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1187

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.4			UNKNOWN	70.0	0.0	NO COAL

MAPID: 05784658000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144747

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633507

DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.7 LOGGED (FT.): 60.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1189

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.7			UNKNOWN	56.2	0.0	
688.5	CARBONDALE	HERRIN	COAL	4.1	56.2	

MAPID: 05784659000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14321 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636147 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.4 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1193 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.4			UNKNOWN	70.0	0.0	NO COAL

MAPID: 05784660000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14472 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634542 DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.3 LOGGED (FT.): 53.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1194 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.3			UNKNOWN	49.7	0.0	
694.6	CARBONDALE		CLAYSTONE	0.8	49.7	WHITE TOP
693.8	CARBONDALE	HERRIN	COAL	3.4	50.5	

MAPID: 05784661000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144707 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635433 DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.4 LOGGED (FT.): 48.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1195 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.4			UNKNOWN	44.0	0.0	
701.4	CARBONDALE	HERRIN	COAL	4.2	44.0	

MAPID: 05784662000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143225

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634197

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 61.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1197

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0			UNKNOWN	57.2	0.0	
689.8	CARBONDALE	HERRIN	COAL	4.2	57.2	

MAPID: 05784663000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143208

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635157

DATE COLLECTED:

SURFACE ELEVATION (FT.): 748.0 LOGGED (FT.): 55.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1198

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.0			UNKNOWN	51.2	0.0	
696.8	CARBONDALE	HERRIN	COAL	4.1	51.2	

MAPID: 05784664000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141658

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636255

DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.8 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1199

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.8			UNKNOWN	70.0	0.0	NO COAL

MAPID: 05784665000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142208 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636608 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.5 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1200 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.5			UNKNOWN	70.0	0.0	NO COAL

MAPID: 05784666000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142489 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636838 DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.4 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1202 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.4			UNKNOWN	70.0	0.0	NO COAL

MAPID: 05784667000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14278 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636991 DATE COLLECTED:

SURFACE ELEVATION (FT.): 742.3 LOGGED (FT.): 52.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1204 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.3			UNKNOWN	49.0	0.0	
693.3	CARBONDALE		UNKNOWN	3.2	49.0	PROBABLY BLACK SHALE

MAPID: 05784668000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142948 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637136 DATE COLLECTED:

SURFACE ELEVATION (FT.): 743.9 LOGGED (FT.): 59.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1213 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.9			UNKNOWN	54.8	0.0	
689.1	CARBONDALE	HERRIN	COAL	4.3	54.8	

MAPID: 05784669000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143033 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636915 DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.3 LOGGED (FT.): 71.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1221 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.3			UNKNOWN	71.0	0.0	NO COAL

MAPID: 05784670000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143362 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6369 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.5 LOGGED (FT.): 71.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1222 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.5			UNKNOWN	71.0	0.0	NO COAL

MAPID: 05784671000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.141444 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635837 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 746.2 **LOGGED (FT.):** 75.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1223 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.2			UNKNOWN	75.0	0.0	NO COAL

MAPID: 05784672000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.141452 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635561 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 747.1 **LOGGED (FT.):** 75.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1224 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.1			UNKNOWN	75.0	0.0	NO COAL

MAPID: 05784673000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.141442 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635288 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 747.2 **LOGGED (FT.):** 75.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1225 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.2			UNKNOWN	75.0	0.0	NO COAL

MAPID: 05784674000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141461 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635023 DATE COLLECTED:

SURFACE ELEVATION (FT.): 748.2 LOGGED (FT.): 66.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1250 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.2			UNKNOWN	62.2	0.0	
686.0	CARBONDALE		CLAYSTONE	0.5	62.2	WHITE TOP
685.5	CARBONDALE	HERRIN	COAL	3.4	62.7	

MAPID: 05784675000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141684 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635217 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.4 LOGGED (FT.): 64.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1251 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.4			UNKNOWN	61.4	0.0	
686.0	CARBONDALE	HERRIN	COAL	2.8	61.4	SOFT & BROKEN

MAPID: 05784676000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142121 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635411 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.8 LOGGED (FT.): 61.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1312 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.8			UNKNOWN	59.0	0.0	
688.8	CARBONDALE	HERRIN	COAL	2.7	59.0	VERY SOFT

MAPID: 05784677000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142103

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635108

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.4 LOGGED (FT.): 60.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1313

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.4			UNKNOWN	57.4	0.0	
690.0	CARBONDALE	HERRIN	COAL	3.3	57.4	

MAPID: 05784678000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142482

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635307

DATE COLLECTED:

SURFACE ELEVATION (FT.): 748.2 LOGGED (FT.): 58.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1314

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.2			UNKNOWN	54.7	0.0	
693.5	CARBONDALE	HERRIN	COAL	3.5	54.7	

MAPID: 05784679000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142368

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635564

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.6 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1315

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.6			UNKNOWN	70.0	0.0	NO COAL

MAPID: 0578468000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.142683 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635485 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 748.0 **LOGGED (FT.):** 58.3 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1316 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.0			UNKNOWN	54.4	0.0	
693.6	CARBONDALE	HERRIN	COAL	3.9	54.4	

MAPID: 05784681000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.142692 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.63575 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 747.5 **LOGGED (FT.):** 68.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1317 **WELL TYPE:** Coal Test
COMMENT: LOC & DATA DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.5			UNKNOWN	68.0	0.0	NO COAL

MAPID: 05784682000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.143013 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635597 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 748.6 **LOGGED (FT.):** 56.6 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1318 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.6			UNKNOWN	52.8	0.0	
695.8	CARBONDALE	HERRIN	COAL	1.2	52.8	SOFT
694.6	CARBONDALE	HERRIN	COAL	2.6	54.0	

MAPID: 05784683000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.143023 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635856 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 748.3 **LOGGED (FT.):** 59.4 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1319 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.3			UNKNOWN	59.4	0.0	NO COAL

MAPID: 05784684000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.143337 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635752 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 748.6 **LOGGED (FT.):** 56.6 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1320 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.6			UNKNOWN	56.0	0.0	
692.6	CARBONDALE	HERRIN	COAL	0.6	56.0	SOFT BROKEN

MAPID: 05784685000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.143309 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635465 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 748.6 **LOGGED (FT.):** 54.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1321 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.6			UNKNOWN	51.0	0.0	
697.6	CARBONDALE	HERRIN	COAL	3.7	51.0	

MAPID: 05784686000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143636

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63559

DATE COLLECTED:

SURFACE ELEVATION (FT.): 748.4 LOGGED (FT.): 52.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1322

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.4			UNKNOWN	49.7	0.0	
698.7	CARBONDALE	HERRIN	COAL	1.6	49.7	SOFT
697.1	CARBONDALE	HERRIN	COAL	1.2	51.3	

MAPID: 05784687000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143653

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63585

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.5 LOGGED (FT.): 52.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1323

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.5			UNKNOWN	51.6	0.0	
695.9	CARBONDALE	HERRIN	CLAY & COAL	1.0	51.6	

MAPID: 05784688000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14396

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635732

DATE COLLECTED:

SURFACE ELEVATION (FT.): 748.0 LOGGED (FT.): 50.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1324

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.0			UNKNOWN	46.9	0.0	
701.1	CARBONDALE	HERRIN	COAL	3.8	46.9	

MAPID: 05784689000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143973 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636003 DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.1 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1325 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.1			UNKNOWN	47.9	0.0	
699.2	CARBONDALE	HERRIN	COAL	2.1	47.9	VERY SOFT

MAPID: 05784690000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144265 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635896 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.8 LOGGED (FT.): 48.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1326 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.8			UNKNOWN	45.2	0.0	
701.6	CARBONDALE	HERRIN	COAL	0.9	45.2	VERY SOFT
700.7	CARBONDALE	HERRIN	COAL	2.5	46.1	

MAPID: 05784691000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144311 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63618 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.9 LOGGED (FT.): 59.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1327 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.9			UNKNOWN	59.8	0.0	NO COAL

MAPID: 05784692000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144582 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636019 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.5 LOGGED (FT.): 59.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1328 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.5			UNKNOWN	59.8	0.0	NO COAL

MAPID: 05784693000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14455 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635759 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.5 LOGGED (FT.): 47.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1329 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.5			UNKNOWN	45.0	0.0	
701.5	CARBONDALE	HERRIN	COAL	1.5	45.0	VERY SOFT
700.0	CARBONDALE	HERRIN	COAL	1.3	46.5	SOFT

MAPID: 05784694000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145044 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637075 DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.3 LOGGED (FT.): 52.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1331 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.3			UNKNOWN	48.9	0.0	
696.4	CARBONDALE	HERRIN	COAL	4.0	48.9	

MAPID: 05784695000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.144896 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635926 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 745.8 **LOGGED (FT.):** 60.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1332 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.8			UNKNOWN	60.0	0.0	NO COAL

MAPID: 05784696000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.144882 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635606 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 745.5 **LOGGED (FT.):** 47.7 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMEAST 1333 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.5			UNKNOWN	44.7	0.0	
700.8	CARBONDALE	HERRIN	COAL	3.0	44.7	

MAPID: 05784697000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.145278 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.635775 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 745.4 **LOGGED (FT.):** 48.4 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1337 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.4			UNKNOWN	47.9	0.0	
697.5	CARBONDALE	HERRIN	COAL	0.5	47.9	VERY SOFT

MAPID: 05784698000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145182 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635499 DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 57.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1338 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.0			UNKNOWN	57.3	0.0	NO COAL

MAPID: 05784699000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144901 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635294 DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.5 LOGGED (FT.): 48.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1339 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.5			UNKNOWN	43.8	0.0	
701.7	CARBONDALE	HERRIN	COAL	4.3	43.8	

MAPID: 05784700000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145259 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635207 DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.2 LOGGED (FT.): 46.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1340 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.2			UNKNOWN	42.4	0.0	
702.8	CARBONDALE		CLAYSTONE	1.4	42.4	WHITE TOP
701.4	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.5	43.8	WHITE TOP
699.9	CARBONDALE	HERRIN	COAL	1.0	45.3	

MAPID: 05784701000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144851 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636199 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.6 LOGGED (FT.): 49.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1347 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.6			UNKNOWN	46.6	0.0	
700.0	CARBONDALE	HERRIN	COAL	1.5	46.6	VERY SOFT
698.5	CARBONDALE	HERRIN	COAL	0.9	48.1	SOFT

MAPID: 05784702000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144829 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636519 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.4 LOGGED (FT.): 52.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1349 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.4			UNKNOWN	48.1	0.0	
698.3	CARBONDALE	HERRIN	COAL	4.0	48.1	

MAPID: 05784703000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144548 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636336 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.7 LOGGED (FT.): 50.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1350 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.7			UNKNOWN	50.0	0.0	NO COAL

MAPID: 05784704000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144544 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636615 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.7 LOGGED (FT.): 51.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1351 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.7			UNKNOWN	48.9	0.0	
697.8	CARBONDALE	HERRIN	COAL	0.6	48.9	BLOSSOM
697.2	CARBONDALE	HERRIN	COAL	2.0	49.5	SOFT

MAPID: 05784705000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144846 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636798 DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.6 LOGGED (FT.): 54.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1352 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.6			UNKNOWN	50.4	0.0	
695.2	CARBONDALE	HERRIN	COAL	4.3	50.4	

MAPID: 05784706000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144438 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636905 DATE COLLECTED:

SURFACE ELEVATION (FT.): 746.3 LOGGED (FT.): 59.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1353 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.3			UNKNOWN	59.6	0.0	NO COAL

MAPID: 05784707000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144739

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637022

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.7 LOGGED (FT.): 53.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1354

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.7			UNKNOWN	50.7	0.0	
695.0	CARBONDALE	HERRIN	COAL	2.3	50.7	SOFT

MAPID: 05784708000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144855

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637344

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 55.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1355

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.0			UNKNOWN	54.5	0.0	
690.5	CARBONDALE	HERRIN	CLAY & COAL	0.9	54.5	

MAPID: 05784709000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14521

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63737

DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.6 LOGGED (FT.): 54.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1356

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.6			UNKNOWN	50.3	0.0	
694.3	CARBONDALE	HERRIN	COAL	3.9	50.3	

MAPID: 0578471000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.1509 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63359 DATE COLLECTED:

SURFACE ELEVATION (FT.): 741.0 LOGGED (FT.): 42.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 980 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.0			UNKNOWN	38.0	0.0	
703.0	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.6	38.0	WHITE TOP
701.4	CARBONDALE	HERRIN	COAL	2.5	39.6	

MAPID: 05784711000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141348 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63651 DATE COLLECTED: 6 / 23 / 1977

SURFACE ELEVATION (FT.): 745.7 LOGGED (FT.): 135.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26981 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.7	PLEISTOCENE		SOIL	18.0	0.0	
727.7	PLEISTOCENE		CLAY, SAND & GRAVEL	9.5	18.0	
718.2	PLEISTOCENE		CLAY & GRAVEL	20.3	27.5	
697.9	CARBONDALE		SANDY SHALE	12.2	47.8	
685.7	CARBONDALE	ANNA	DARK SHALE	3.0	60.0	
682.7	CARBONDALE	HERRIN	COAL	1.6	63.0	
681.1	CARBONDALE	HERRIN	BLUE BAND	0.2	64.6	
680.9	CARBONDALE	HERRIN	COAL	1.2	64.8	
679.7	CARBONDALE		UNDERCLAY	1.5	66.0	
678.2	CARBONDALE		SANDSTONE	58.0	67.5	
620.2	CARBONDALE		DARK SHALE	1.1	125.5	
619.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	126.6	
618.7	CARBONDALE	TURNER MINE	SHALE	2.2	127.0	
616.5	CARBONDALE	SPRINGFIELD	COAL	3.9	129.2	
612.6	CARBONDALE		UNDERCLAY	1.9	133.1	

MAPID: 05784712000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.147289 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633548 DATE COLLECTED: 6 / 24 / 1977

SURFACE ELEVATION (FT.): 743.7 LOGGED (FT.): 123.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26982 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
743.7	PLEISTOCENE		SOIL	21.6	0.0
722.1	CARBONDALE		SANDSTONE	24.9	21.6
697.2	CARBONDALE		GRAY SHALE	4.0	46.5
693.2	CARBONDALE	HERRIN	COAL	2.2	50.5
691.0	CARBONDALE	HERRIN	BLUE BAND	0.2	52.7
690.8	CARBONDALE	HERRIN	COAL	1.6	52.9
689.2	CARBONDALE		UNDERCLAY	1.3	54.5
687.9	CARBONDALE		SANDSTONE	4.2	55.8
683.7	CARBONDALE		SHALE & SANDSTONE	10.3	60.0
673.4	CARBONDALE		SANDSTONE	44.5	70.3
628.9	CARBONDALE	ST. DAVID	LIMESTONE	1.2	114.8
627.7	CARBONDALE	TURNER MINE	DARK SHALE	1.4	116.0
626.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	117.4
625.7	CARBONDALE	SPRINGFIELD	COAL	3.6	118.0
622.1	CARBONDALE		UNDERCLAY	1.4	121.6

MAPID: 05784713000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142177 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633656 DATE COLLECTED: 6 / 6 / 1977

SURFACE ELEVATION (FT.): 746.5 LOGGED (FT.): 131.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 27080 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.5	PLEISTOCENE		CLAY	25.5	0.0	YELLOW
721.0	PLEISTOCENE		CLAY	6.5	25.5	GRAY
714.5	CARBONDALE		SHALE & SANDSTONE	11.3	32.0	
703.2	CARBONDALE		GRAY SHALE	10.7	43.3	
692.5	CARBONDALE	BRERETON	LIMESTONE	3.8	54.0	
688.7	CARBONDALE		CLAYSTONE	0.8	57.8	WHITE TOP
687.9	CARBONDALE	ANNA	DARK SHALE	0.4	58.6	
687.5	CARBONDALE	HERRIN	COAL	3.5	59.0	
684.0	CARBONDALE		UNDERCLAY	1.6	62.5	
682.4	CARBONDALE		LIMESTONE	1.7	64.1	
680.7	CARBONDALE		SHALE & SANDSTONE	32.2	65.8	
648.5	CARBONDALE		SANDSTONE	23.0	98.0	
625.5	CARBONDALE		DARK SHALE	1.0	121.0	
624.5	CARBONDALE	TURNER MINE	DARK SHALE	1.5	122.0	
623.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	123.5	
621.5	CARBONDALE	SPRINGFIELD	COAL	3.8	125.0	
617.7	CARBONDALE		UNDERCLAY	2.2	128.8	

MAPID: 05784714000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.154456

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633504

DATE COLLECTED: 6 / 24 / 1977

SURFACE ELEVATION (FT.): 741.1 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 27081

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
741.1	PLEISTOCENE		CLAY	26.5	0.0
714.6	CARBONDALE		SANDSTONE	7.0	26.5
707.6	CARBONDALE		GRAY SHALE	13.9	33.5
693.7	CARBONDALE	HERRIN	COAL	3.8	47.4
689.9	CARBONDALE		UNDERCLAY	1.7	51.2
688.2	CARBONDALE		SHALE & SANDSTONE	41.6	52.9
646.6	CARBONDALE		SANDSTONE	15.1	94.5
631.5	CARBONDALE		DARK SHALE	1.8	109.6
629.7	CARBONDALE	TURNER MINE	DARK SHALE	0.6	111.4
629.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	112.0
627.5	CARBONDALE	SPRINGFIELD	COAL	3.9	113.6
623.6	CARBONDALE		UNDERCLAY	2.5	117.5

MAPID: 05784931000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.142383

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640632

DATE COLLECTED:

SURFACE ELEVATION (FT.): 702.8 LOGGED (FT.): 23.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST FV324B

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
702.8			UNKNOWN	20.0	0.0
682.8	CARBONDALE	HERRIN	COAL	3.1	20.0

MAPID: 05784932000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144855

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637344

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 51.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1355

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.0			UNKNOWN	50.5	0.0	
694.5	CARBONDALE	HERRIN	CLAY & COAL	0.9	50.5	

MAPID: 05784933000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14521

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637344

DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.6 LOGGED (FT.): 54.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1356

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.6			UNKNOWN	50.3	0.0	
694.3	CARBONDALE	HERRIN	COAL	3.9	50.3	

MAPID: 05784934000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143707

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637419

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.6 LOGGED (FT.): 60.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1079

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.6			UNKNOWN	55.9	0.0	
689.7	CARBONDALE	HERRIN	COAL	4.5	55.9	

MAPID: 05784935000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.143995 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637586 DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.9 LOGGED (FT.): 58.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1089 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.9			UNKNOWN	54.0	0.0	
690.9	CARBONDALE	HERRIN	COAL	4.3	54.0	

MAPID: 05784936000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144251 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637447 DATE COLLECTED:

SURFACE ELEVATION (FT.): 742.0 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1090 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.0			UNKNOWN	65.0	0.0	NO COAL

MAPID: 05784937000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.144326 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637689 DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.1 LOGGED (FT.): 61.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1091 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.1			UNKNOWN	60.0	0.0	
685.1	CARBONDALE	HERRIN	COAL	1.5	60.0	SOFT

MAPID: 05784940000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.144541 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.637528 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 744.9 **LOGGED (FT.):** 65.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1092 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.9			UNKNOWN	65.0	0.0	NO COAL

MAPID: 05784941000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.144642 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.637858 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 744.6 **LOGGED (FT.):** 60.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1095 **WELL TYPE:** Coal Test
COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.6			UNKNOWN	57.5	0.0	
687.1	CARBONDALE	HERRIN	COAL	2.5	57.5	

MAPID: 05784942000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 34 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.144825 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.637667 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 744.4 **LOGGED (FT.):** 65.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1096 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.4			UNKNOWN	65.0	0.0	NO COAL

MAPID: 05784943000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14495 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63789 DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.1 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1097 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.1			UNKNOWN	65.0	0.0	NO COAL

MAPID: 05784944000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.145144 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637657 DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.1 LOGGED (FT.): 55.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1207 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.1			UNKNOWN	54.7	0.0	
689.4	CARBONDALE	HERRIN	COAL	0.8	54.7	SOFT

MAPID: 05784945000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141217 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640644 DATE COLLECTED: 5 / 6 / 1937

SURFACE ELEVATION (FT.): 731.0 LOGGED (FT.): 57.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 58 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 14

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.0	PLEISTOCENE		CLAY	13.8	0.0	
717.2	PLEISTOCENE		SANDY CLAY	6.2	13.8	
711.1	CARBONDALE		SANDY SHALE	19.9	19.9	
691.2	CARBONDALE		GRAY SHALE	11.3	39.8	
679.9	CARBONDALE		CLAYSTONE	1.1	51.1	
678.7	CARBONDALE	ANNA	BLACK SHALE	0.3	52.3	SOFT
678.5	CARBONDALE	HERRIN	COAL	2.4	52.5	
676.1	CARBONDALE	HERRIN	SHALE	0.2	54.9	
675.9	CARBONDALE	HERRIN	COAL	1.4	55.1	SOFT
674.5	CARBONDALE		UNDERCLAY	0.9	56.5	

MAPID: 05785728000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.140348

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629792

DATE COLLECTED: 4 / 22 / 1937

SURFACE ELEVATION (FT.): 744.0 LOGGED (FT.): 65.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 35

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.0	PLEISTOCENE		CLAY	21.9	0.0	
722.1	PLEISTOCENE		SANDY CLAY	2.0	21.9	
720.1	PLEISTOCENE		SAND & GRAVEL	3.3	23.9	YELLOW
716.8	PLEISTOCENE		SAND & GRAVEL	6.8	27.2	GRAY
710.1	PLEISTOCENE		SANDY CLAY	2.6	33.9	YELLOW
707.5	PLEISTOCENE		SANDY CLAY	4.8	36.5	SOFT
702.7	CARBONDALE		SANDY SHALE	0.3	41.3	
702.4	CARBONDALE		SANDSTONE	1.9	41.6	
700.5	CARBONDALE		SANDY SHALE	2.5	43.5	YELLOW
698.1	CARBONDALE		SANDY SHALE	1.1	45.9	
697.0	CARBONDALE		SANDY SHALE	12.4	47.0	SOFT
684.6	CARBONDALE	BRERETON	LIMESTONE	0.5	59.4	HARD
684.1	CARBONDALE		CLAYSTONE	0.5	59.9	
683.6	CARBONDALE	HERRIN	COAL	2.7	60.4	
680.9	CARBONDALE	HERRIN	SHALE	0.2	63.1	
680.7	CARBONDALE	HERRIN	COAL	1.5	63.3	
679.2	CARBONDALE		UNDERCLAY	1.2	64.8	

MAPID: 05785729000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.140163

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633281

DATE COLLECTED: 4 / 22 / 1937

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 61.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 53

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0	PLEISTOCENE		CLAY	15.2	0.0	
730.8	PLEISTOCENE		CLAY	15.8	15.2	YELLOW
715.0	PLEISTOCENE		SILTY CLAY	5.1	31.0	
709.9	PLEISTOCENE		CLAY	7.0	36.1	
702.9	CARBONDALE		GRAY SHALE	13.9	43.1	
688.9	CARBONDALE	HERRIN	COAL	2.2	57.1	
686.7	CARBONDALE	HERRIN	CLAYSTONE	0.1	59.3	PARTING
686.6	CARBONDALE	HERRIN	COAL	1.3	59.4	
685.3	CARBONDALE		UNDERCLAY	0.5	60.7	

MAPID: 05785730000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.140317

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6315

DATE COLLECTED: 10 / 20 / 1945

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 69.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 94

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.0	PLEISTOCENE		SOIL	2.0	0.0	
743.0	PLEISTOCENE		CLAY	18.0	2.0	
725.0	PLEISTOCENE		BOULDER	1.0	20.0	
724.0	PLEISTOCENE		CLAY & GRAVEL	3.0	21.0	YELLOW
721.0	PLEISTOCENE		CLAY & GRAVEL	5.0	24.0	
716.0	PLEISTOCENE		CLAY & GRAVEL	5.0	29.0	
711.0	PLEISTOCENE		SANDY CLAY	6.0	34.0	
705.0	PLEISTOCENE		CLAY	4.0	40.0	GRAY
701.0	PLEISTOCENE		CLAY	2.3	44.0	
698.7	CARBONDALE		GRAY SHALE	16.2	46.3	
682.5	CARBONDALE	BRERETON	LIMESTONE	1.3	62.5	
681.2	CARBONDALE	ANNA	BLACK SHALE	0.4	63.8	SOFT
680.8	CARBONDALE	HERRIN	COAL	2.1	64.2	HARD
678.7	CARBONDALE	HERRIN	SHALE	0.2	66.3	
678.5	CARBONDALE	HERRIN	COAL	1.9	66.5	
676.6	CARBONDALE		UNDERCLAY	1.4	68.4	

MAPID: 05785791000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139487

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637323

DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.4 LOGGED (FT.): 73.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1336

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.4			UNKNOWN	69.3	0.0	
676.1	CARBONDALE	HERRIN	COAL	4.1	69.3	

MAPID: 05785792000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 34 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.14073 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636991 DATE COLLECTED:

SURFACE ELEVATION (FT.): 733.1 LOGGED (FT.): 58.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1182 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.1			UNKNOWN	57.3	0.0	
675.8	CARBONDALE	HERRIN	COAL	0.8	57.3	SOFT & BROKEN

MAPID: 05785200000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.12582 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637807 DATE COLLECTED: 5 / 24 / 1960

SURFACE ELEVATION (FT.): 751.5 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 435 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
751.5	PLEISTOCENE		SOIL	1.0	0.0	
750.5	PLEISTOCENE		CLAY	20.7	1.0	
729.8	PLEISTOCENE		CLAY, SAND & GRAVEL	3.5	21.7	
726.3	PLEISTOCENE		CLAY & GRAVEL	12.5	25.2	
713.8	PLEISTOCENE		CLAY	16.0	37.7	
697.8	CARBONDALE		SANDSTONE	6.8	53.7	
691.0	CARBONDALE		SANDSTONE/SHALE	7.1	60.5	GRAY
683.9	CARBONDALE		DARK SHALE	4.6	67.6	
679.3	CARBONDALE	ANNA	BLACK SHALE	0.6	72.2	
678.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.4	72.8	
676.3	CARBONDALE	HERRIN	BLUE BAND	0.2	75.2	
676.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	75.4	
674.5	CARBONDALE		UNDERCLAY	1.0	77.0	

MAPID: 05785201000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.125827 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.639415 DATE COLLECTED: 5 / 24 / 1960

SURFACE ELEVATION (FT.): 748.1 LOGGED (FT.): 62.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 436 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
748.1	PLEISTOCENE		CLAY	1.0	0.0
747.1	PLEISTOCENE		CLAY	18.7	1.0
728.4	PLEISTOCENE		CLAY & GRAVEL	8.0	19.7
720.4	PLEISTOCENE		CLAY	3.6	27.7
716.8	PLEISTOCENE		BOULDER	0.8	31.3
716.0	CARBONDALE		SANDSTONE	6.5	32.1
709.5	CARBONDALE		SANDY SHALE	1.3	38.6
708.2	CARBONDALE		SANDSTONE	5.3	39.9
702.9	CARBONDALE		SANDY SHALE	8.8	45.2
694.1	CARBONDALE	BRERETON	LIMESTONE	1.1	54.0
693.0	CARBONDALE	ANNA	BLACK SHALE	1.4	55.1
691.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.4	56.5
689.2	CARBONDALE	HERRIN	BLUE BAND	0.2	58.9
689.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	59.1
687.4	CARBONDALE		UNDERCLAY	1.3	60.7

MAPID: 05785212000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122216 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638195 DATE COLLECTED:

SURFACE ELEVATION (FT.): 751.5 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT62 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
751.5				77.0	0.0
674.5	CARBONDALE		CLAYSTONE	2.6	77.0 WHITE TOP
671.9	CARBONDALE	HERRIN	COAL	1.4	79.6

MAPID: 05785213000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.124605

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638045

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 66.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT71

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0			UNKNOWN	63.0	0.0	
684.0	CARBONDALE		CLAYSTONE	1.9	63.0	WHITE TOP
682.1	CARBONDALE	HERRIN	COAL	2.0	64.9	

MAPID: 05785214000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120792

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651059

DATE COLLECTED:

SURFACE ELEVATION (FT.): 751.2 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT55

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
751.2			UNKNOWN	72.4	0.0	
678.8	CARBONDALE	HERRIN	COAL	2.6	72.4	

MAPID: 05785215000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.125743

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63893

DATE COLLECTED:

SURFACE ELEVATION (FT.): 748.0 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT60

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.0			UNKNOWN	55.9	0.0	
692.1	CARBONDALE	HERRIN	COAL	4.1	55.9	

MAPID: 05785216000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.124575

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.639965

DATE COLLECTED:

SURFACE ELEVATION (FT.): 749.0 LOGGED (FT.): 65.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT70

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.0			UNKNOWN	61.2	0.0	
687.8	CARBONDALE		CLAYSTONE	2.0	61.2	WHITE TOP
685.8	CARBONDALE	HERRIN	COAL	2.5	63.2	

MAPID: 05785217000C VERSION: 1

PROJECT: NCRDRS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.1222

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.639986

DATE COLLECTED:

SURFACE ELEVATION (FT.): 749.4 LOGGED (FT.): 77.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT61

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.4			UNKNOWN	27.6	0.0	
721.8	CARBONDALE	DANVILLE	COAL	1.4	27.6	
720.4	CARBONDALE		UNKNOWN	48.6	29.0	
671.8	CARBONDALE		CLAYSTONE	-	77.6	

MAPID: 05785435000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130556 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638885 DATE COLLECTED: 5 / 1 / 1937

SURFACE ELEVATION (FT.): 744.0 LOGGED (FT.): 66.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 61 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.0	PLEISTOCENE		CLAY	17.6	0.0	
726.4	PLEISTOCENE		SAND & GRAVEL	3.7	17.6	YELLOW
722.8	PLEISTOCENE		SANDY CLAY	2.3	21.2	YELLOW
720.5	PLEISTOCENE		SANDY CLAY	10.2	23.5	GRAY
710.3	PLEISTOCENE		SAND/CLAY	1.8	33.7	
708.6	CARBONDALE		SANDY SHALE	5.3	35.4	CLAYEY
703.3	CARBONDALE		SANDY SHALE	2.7	40.7	
700.7	CARBONDALE		SANDY SHALE	5.6	43.3	HARD
695.1	CARBONDALE		SANDY SHALE	4.5	48.9	
690.6	CARBONDALE		SHALE	4.6	53.4	
686.0	CARBONDALE		SANDY SHALE	3.1	58.0	SOFT
682.9	CARBONDALE	ANNA	BLACK SHALE	0.6	61.1	SOFT
682.3	CARBONDALE	HERRIN	COAL	2.5	61.7	
679.9	CARBONDALE	HERRIN	SHALE	0.2	64.1	
679.7	CARBONDALE	HERRIN	COAL	1.6	64.3	SOFT
678.1	CARBONDALE		UNDERCLAY	0.9	65.9	

MAPID: 05785436000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.128183 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.639212 DATE COLLECTED: 5 / 3 / 1937

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 64.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 62 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0	PLEISTOCENE		CLAY	19.5	0.0	
726.5	PLEISTOCENE		SANDY CLAY	1.3	19.5	
725.2	PLEISTOCENE		SAND	2.9	20.8	HARD & SOFT
722.4	PLEISTOCENE		SANDY CLAY	20.1	23.6	SOFT
702.3	PLEISTOCENE		SANDY CLAY	15.3	43.7	
687.0	PLEISTOCENE		SANDY CLAY	0.8	59.0	DARK GRAY
686.2	CARBONDALE	HERRIN	COAL	2.3	59.8	TOP ERODED
683.9	CARBONDALE	HERRIN	SHALE	0.2	62.1	
683.7	CARBONDALE	HERRIN	COAL	1.6	62.3	
682.2	CARBONDALE		UNDERCLAY	1.0	63.8	

MAPID: 05785437000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133728

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637572

DATE COLLECTED: 5 / 5 / 1937

SURFACE ELEVATION (FT.): 743.0 LOGGED (FT.): 81.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 63

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.0	PLEISTOCENE		CLAY	22.0	0.0	
721.0	PLEISTOCENE		SANDY CLAY	7.9	22.0	YELLOW
713.1	PLEISTOCENE		SANDY CLAY	12.6	29.9	SOFT
700.5	PLEISTOCENE		SANDY CLAY	4.9	42.5	GRAY
695.6	CARBONDALE		SANDY SHALE	1.7	47.4	
694.0	CARBONDALE		SANDSTONE	2.4	49.0	SOFT
691.6	CARBONDALE		SANDY SHALE	23.4	51.4	
668.2	CARBONDALE		CLAYSTONE	2.0	74.8	SANDY
666.2	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.9	76.8	
665.3	CARBONDALE	HERRIN	COAL	3.0	77.7	
662.3	CARBONDALE		UNDERCLAY	0.9	80.7	

MAPID: 05785438000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132928 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638103 DATE COLLECTED: 5 / 10 / 1960

SURFACE ELEVATION (FT.): 747.7 LOGGED (FT.): 82.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 417 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
747.7	PLEISTOCENE		SOIL	1.0	0.0
746.7	PLEISTOCENE		CLAY	24.9	1.0
721.8	PLEISTOCENE		CLAY & GRAVEL	12.1	25.9
709.7	CARBONDALE		CLAYSTONE & SHALE	7.9	38.0
701.8	CARBONDALE		GRAY SHALE	5.5	45.9
696.3	CARBONDALE		LIMESTONE	2.5	51.4
693.8	CARBONDALE		CALCAREOUS SHALE	2.0	53.9
691.8	CARBONDALE		GRAY SHALE	7.0	55.9
684.8	CARBONDALE		SANDSTONE	0.5	62.9
684.3	CARBONDALE		GRAY SHALE	11.1	63.4
673.2	CARBONDALE	ANNA	DARK SHALE	0.8	74.5
672.4	CARBONDALE	ANNA	BLACK SHALE	1.0	75.3
671.4	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.3	76.3
669.1	CARBONDALE	HERRIN	BLUE BAND	0.2	78.6
668.9	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	78.8
667.4	CARBONDALE		UNDERCLAY	1.7	80.3

MAPID: 05785439000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130661

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638077

DATE COLLECTED: 5 / 11 / 1960

SURFACE ELEVATION (FT.): 747.8 LOGGED (FT.): 69.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 418

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
747.8	PLEISTOCENE		SOIL	1.0	0.0
746.8	PLEISTOCENE		CLAY	23.9	1.0
722.9	PLEISTOCENE		CLAY & GRAVEL	9.2	24.9
713.7	CARBONDALE		SANDY SHALE	7.8	34.1
705.9	CARBONDALE		GRAY SANDSTONE	9.9	41.9
696.0	CARBONDALE		GRAY SHALE	7.5	51.8
688.5	CARBONDALE		DARK SHALE	3.9	59.3
684.6	CARBONDALE	ANNA	BLACK SHALE	0.6	63.2
684.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.3	63.8
681.7	CARBONDALE	HERRIN	BLUE BAND	0.2	66.1
681.5	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	66.3
680.0	CARBONDALE		UNDERCLAY	1.2	67.8

MAPID: 05785440000C VERSION: 1

PROJECT: NCRDS00`

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.135602 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638208 DATE COLLECTED: 5 / 17 / 1960

SURFACE ELEVATION (FT.): 745.7 LOGGED (FT.): 142.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 426 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.7	PLEISTOCENE		SOIL	1.0	0.0	
744.7	PLEISTOCENE		CLAY	31.1	1.0	YELLOW
713.6	PLEISTOCENE		CLAY & GRAVEL	11.0	32.1	YELLOW
702.6	PLEISTOCENE		CLAY & GRAVEL	18.8	43.1	& BOULDERS
683.8	PLEISTOCENE		CLAY	7.7	61.9	& BOULDERS
676.1	CARBONDALE		GRAY SHALE	1.0	69.6	
675.1	CARBONDALE	ANNA	DARK SHALE	0.7	70.6	
674.4	CARBONDALE	ANNA	BLACK SHALE	0.2	71.3	
674.2	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.0	71.5	
672.2	CARBONDALE	HERRIN	BLUE BAND	0.2	73.5	
672.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	73.7	
670.4	CARBONDALE		UNDERCLAY	1.7	75.3	
668.7	CARBONDALE		GRAY SHALE	2.2	77.0	
666.5	CARBONDALE		LIMESTONE	4.7	79.2	
661.8	CARBONDALE		CALCAREOUS SHALE	11.8	83.9	
650.0	CARBONDALE		LIMESTONE	0.4	95.7	
649.6	CARBONDALE		SANDSTONE	24.3	96.1	
625.3	CARBONDALE		LIMESTONE	3.5	120.4	
621.8	CARBONDALE		SANDSTONE	8.2	123.9	
613.6	CARBONDALE		GRAY SHALE	1.1	132.1	
612.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	133.2	
612.1	CARBONDALE	TURNER MINE	SHALE	2.6	133.6	
609.5	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.0	136.2	
605.5	CARBONDALE		UNDERCLAY	1.8	140.2	

MAPID: 05785441000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.128029 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.639406 DATE COLLECTED: 5 / 18 / 1960

SURFACE ELEVATION (FT.): 746.4 LOGGED (FT.): 130.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 428 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
746.4	PLEISTOCENE		SOIL	1.0	0.0
745.4	PLEISTOCENE		CLAY	13.4	1.0
732.0	PLEISTOCENE		CLAY & GRAVEL	29.4	14.4
702.6	CARBONDALE		SANDY SHALE	11.4	43.8
691.2	CARBONDALE		DARK SHALE	3.4	55.2
687.8	CARBONDALE	BRERETON	LIMESTONE	0.6	58.6
687.2	CARBONDALE	ANNA	DARK SHALE	0.7	59.2
686.5	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.2	59.9
684.3	CARBONDALE	HERRIN	BLUE BAND	0.2	62.1
684.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	62.3
682.5	CARBONDALE		UNDERCLAY	1.5	63.9
681.0	CARBONDALE		LIMESTONE	0.8	65.4
680.2	CARBONDALE		LIMESTONE	1.3	66.2
678.9	CARBONDALE		GRAY SHALE	3.2	67.5
675.7	CARBONDALE		LIMESTONE	3.0	70.7
672.7	CARBONDALE		GRAY SHALE	12.1	73.7
660.6	CARBONDALE		LIMESTONE	1.0	85.8
659.6	CARBONDALE		GRAY SHALE	13.5	86.8
646.1	CARBONDALE		SANDSTONE	21.4	100.3
624.7	CARBONDALE	ST. DAVID	LIMESTONE	1.0	121.7
623.7	CARBONDALE	TURNER MINE	DARK SHALE	1.4	122.7
622.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	124.1
620.7	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	4.0	125.7
616.7	CARBONDALE		UNDERCLAY	0.6	129.7

MAPID: 05785442000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.126964 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.639404 DATE COLLECTED: 5 / 20 / 1960

SURFACE ELEVATION (FT.): 748.8 LOGGED (FT.): 64.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 429 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
748.8	PLEISTOCENE		SOIL	1.0	0.0
747.8	PLEISTOCENE		CLAY	18.7	1.0
729.1	PLEISTOCENE		CLAY & GRAVEL	3.5	19.7
725.6	PLEISTOCENE		CLAY, SAND & GRAVEL	4.0	23.2
721.6	PLEISTOCENE		UNKNOWN	15.5	27.2
706.1	CARBONDALE		SANDSTONE	7.0	42.7
699.1	CARBONDALE		GRAY SHALE	5.2	49.7
693.9	CARBONDALE		DARK SHALE	3.3	54.9
690.6	CARBONDALE	ANNA	BLACK SHALE	0.9	58.2
689.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.2	59.1
687.5	CARBONDALE	HERRIN	BLUE BAND	0.2	61.3
687.3	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	61.5
685.7	CARBONDALE		UNDERCLAY	0.9	63.1

MAPID: 05785443000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.126947 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640267 DATE COLLECTED: 5 / 20 / 1960

SURFACE ELEVATION (FT.): 746.8 LOGGED (FT.): 66.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 430 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
746.8	PLEISTOCENE		SOIL	1.0	0.0
745.8	PLEISTOCENE		CLAY	24.5	1.0
721.3	PLEISTOCENE		CLAY & GRAVEL	7.5	25.5
713.8	CARBONDALE		SANDSTONE	5.0	33.0
708.8	CARBONDALE		LIMESTONE	3.0	38.0
705.8	CARBONDALE		SANDSTONE	1.6	41.0
704.2	CARBONDALE		GRAY SHALE	7.8	42.6
696.4	CARBONDALE		DARK SHALE	9.5	50.4
686.9	CARBONDALE	ANNA	BLACK SHALE	0.5	59.9
686.4	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.2	60.4
684.2	CARBONDALE	HERRIN	BLUE BAND	0.2	62.6
684.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	62.8
682.4	CARBONDALE		UNDERCLAY	1.6	64.4

MAPID: 05785444000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.12811 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637916 DATE COLLECTED: 5 / 24 / 1960

SURFACE ELEVATION (FT.): 750.0 LOGGED (FT.): 80.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 434 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.0	PLEISTOCENE		SOIL	1.0	0.0	
749.0	PLEISTOCENE		CLAY	19.4	1.0	
729.6	PLEISTOCENE		SAND & GRAVEL	6.4	20.4	
723.2	PLEISTOCENE		CLAY & GRAVEL	30.6	26.8	
692.6	CARBONDALE		SANDSTONE	3.9	57.4	
688.7	CARBONDALE		SANDY SHALE	13.0	61.3	
675.7	CARBONDALE	ANNA	DARK SHALE	0.7	74.3	
675.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.0	75.0	
673.0	CARBONDALE	HERRIN	BLUE BAND	0.2	77.0	
672.8	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	77.2	
671.2	CARBONDALE		UNDERCLAY	1.3	78.8	

MAPID: 05785445000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.129632 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640386 DATE COLLECTED: 5 / 25 / 1960

SURFACE ELEVATION (FT.): 745.5 LOGGED (FT.): 69.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 437 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.5	PLEISTOCENE		SOIL	1.0	0.0	
744.5	PLEISTOCENE		CLAY	16.1	1.0	YELLOW
728.4	PLEISTOCENE		CLAY & GRAVEL	7.2	17.1	YELLOW
721.2	PLEISTOCENE		CLAY & GRAVEL	6.8	24.3	GREEN
714.4	PLEISTOCENE		SANDY CLAY	8.0	31.1	GREEN
706.4	CARBONDALE		SANDSTONE	4.6	39.1	
701.8	CARBONDALE		GRAY SHALE	12.8	43.7	
689.0	CARBONDALE		DARK SHALE	2.8	56.5	
686.2	CARBONDALE	BRERETON	LIMESTONE	1.8	59.3	
684.4	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.3	61.1	
682.1	CARBONDALE	HERRIN	BLUE BAND	0.2	63.4	
681.9	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	63.6	
680.4	CARBONDALE		UNDERCLAY	1.4	65.1	
679.0	CARBONDALE		GRAY SHALE	2.4	66.5	
676.6	CARBONDALE		LIMESTONE	0.7	68.9	

MAPID: 05785446000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138313 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637575 DATE COLLECTED: 3 / 11 / 1964

SURFACE ELEVATION (FT.): 745.6 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 914 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
745.6	PLEISTOCENE		SOIL	1.0	0.0
744.6	PLEISTOCENE		CLAY & GRAVEL	27.2	1.0
717.4	PLEISTOCENE		SANDY CLAY	24.3	28.2
693.1	CARBONDALE		GRAY SHALE	2.6	52.5
690.5	CARBONDALE		SANDSTONE	3.2	55.1
687.3	CARBONDALE		GRAY SHALE	9.7	58.3
677.6	CARBONDALE		DARK SHALE	1.7	68.0
675.9	CARBONDALE	BRERETON	LIMESTONE	4.8	69.7
671.1	CARBONDALE	ANNA	DARK SHALE	0.3	74.5
670.8	CARBONDALE	HERRIN	COAL	2.3	74.8
668.5	CARBONDALE	HERRIN	BLUE BAND	0.2	77.1
668.3	CARBONDALE	HERRIN	COAL	1.5	77.3
666.8	CARBONDALE		UNDERCLAY	1.2	78.8

MAPID: 05785691000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139487 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637323 DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.4 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1336 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
745.4			UNKNOWN	69.9	0.0
675.5	CARBONDALE	HERRIN	COAL	4.1	69.9

MAPID: 05785692000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132951

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.639345

DATE COLLECTED:

SURFACE ELEVATION (FT.): 711.1 LOGGED (FT.): 64.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1311

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.1			UNKNOWN	60.0	0.0	
651.1	CARBONDALE	HERRIN	COAL	4.0	60.0	

MAPID: 05785693000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133095

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640064

DATE COLLECTED:

SURFACE ELEVATION (FT.): 739.3 LOGGED (FT.): 59.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1310

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.3			UNKNOWN	55.5	0.0	
683.8	CARBONDALE	HERRIN	COAL	3.9	55.5	

MAPID: 05785694000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.134009

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.639008

DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.1 LOGGED (FT.): 71.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1309

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.1			UNKNOWN	68.3	0.0	
675.8	CARBONDALE		CLAYSTONE	1.4	68.3	WHITE TOP
674.4	CARBONDALE	HERRIN	COAL	1.8	69.7	

MAPID: 05785695000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 35 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.134247 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.639743 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 744.7 **LOGGED (FT.):** 67.8 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1308 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.7			UNKNOWN	64.1	0.0	
680.6	CARBONDALE	HERRIN	COAL	3.7	64.1	

MAPID: 05785696000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 35 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.134114 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.640616 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 724.5 **LOGGED (FT.):** 44.1 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1307 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.5			UNKNOWN	39.9	0.0	
684.6	CARBONDALE	HERRIN	COAL	4.2	39.9	

MAPID: 05785697000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 35 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.13526 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.638783 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 744.9 **LOGGED (FT.):** 75.5 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST 1306 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.9			UNKNOWN	71.2	0.0	
673.7	CARBONDALE	HERRIN	COAL	4.3	71.2	

MAPID: 05785698000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137217 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637733 DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.5 LOGGED (FT.): 82.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 1298 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
745.5			UNKNOWN	78.4	0.0
667.1	CARBONDALE	HERRIN	COAL	4.0	78.4

MAPID: 05785727000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130897 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.640567 DATE COLLECTED: 10 / 8 / 1973

SURFACE ELEVATION (FT.): 743.1 LOGGED (FT.): 128.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 17841 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 13

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
743.1	PLEISTOCENE		SOIL	22.5	0.0
720.6	PLEISTOCENE		SANDY CLAY	8.3	22.5
712.3	CARBONDALE		GRAY SHALE	2.8	30.8
709.5	CARBONDALE		SANDSTONE	10.4	33.6
699.1	CARBONDALE		GRAY SHALE	5.7	44.0
693.4	CARBONDALE		DARK SHALE	9.3	49.7
684.1	CARBONDALE	HERRIN	COAL	4.4	59.0
679.7	CARBONDALE		UNDERCLAY	2.6	63.4
677.1	CARBONDALE		LIMESTONE	6.0	66.0
671.1	CARBONDALE		SILTSTONE/LIMESTONE	49.0	72.0
622.1	CARBONDALE		DARK SHALE	1.2	121.0
620.9	CARBONDALE	ST. DAVID	LIMESTONE	0.6	122.2
620.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	122.8
619.3	CARBONDALE	SPRINGFIELD	COAL	4.0	123.8
615.3	CARBONDALE		UNDERCLAY	0.4	127.8

MAPID: 05785731000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130684

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636258

DATE COLLECTED: 5 / 10 / 1960

SURFACE ELEVATION (FT.): 750.9 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 415

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.9	PLEISTOCENE		SOIL	1.0	0.0	
749.9	PLEISTOCENE		CLAY	17.8	1.0	
732.1	PLEISTOCENE		CLAY & GRAVEL	6.1	18.8	
726.0	PLEISTOCENE		SANDY CLAY	43.1	24.9	
682.9	PLEISTOCENE		CLAY	0.4	68.0	
682.5	PLEISTOCENE		CLAY	0.8	68.4	
681.7	CARBONDALE	HERRIN	COAL	2.6	69.2	SOFT BROKEN;TOP ERODED
679.1	CARBONDALE	HERRIN	BLUE BAND	0.2	71.8	
678.9	CARBONDALE	HERRIN	COAL	1.2	72.0	SOFT
677.7	CARBONDALE		UNDERCLAY	1.8	73.2	

MAPID: 05785732000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132977

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636293

DATE COLLECTED: 5 / 10 / 1960

SURFACE ELEVATION (FT.): 750.9 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 416

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.9	PLEISTOCENE		SOIL	1.0	0.0	
749.9	PLEISTOCENE		CLAY	17.6	1.0	
732.3	PLEISTOCENE		BOULDER	1.0	18.6	& SAND
731.3	PLEISTOCENE		BOULDER	5.9	19.6	& CLAY
725.4	PLEISTOCENE		SANDY CLAY	24.4	25.5	
701.0	CARBONDALE		SANDSTONE	4.6	49.9	
696.4	CARBONDALE		SHALE & SANDSTONE	5.4	54.5	
691.0	CARBONDALE		SANDSTONE	7.0	59.9	
684.0	CARBONDALE		GRAY SHALE	9.9	66.9	
674.1	CARBONDALE		DARK SHALE	2.8	76.8	
671.3	CARBONDALE	BRERETON	LIMESTONE	2.0	79.6	
669.3	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.3	81.6	
667.0	CARBONDALE	HERRIN	BLUE BAND	0.2	83.9	
666.8	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.7	84.1	
665.1	CARBONDALE		UNDERCLAY	1.2	85.8	
663.9	CARBONDALE		GRAY SHALE	3.0	87.0	

MAPID: 05785733000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130707

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63361

DATE COLLECTED: 5 / 12 / 1960

SURFACE ELEVATION (FT.): 749.1 LOGGED (FT.): 71.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 419

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.1	PLEISTOCENE		SOIL	1.0	0.0	
748.1	PLEISTOCENE		CLAY	15.4	1.0	
732.7	PLEISTOCENE		CLAY & GRAVEL	8.5	16.4	
724.2	CARBONDALE	DANVILLE	CLAY & COAL	1.1	24.9	TOP ERODED
723.1	CARBONDALE		CLAYSTONE	22.8	26.0	
700.3	CARBONDALE		SANDSTONE	5.1	48.8	
695.2	CARBONDALE		SHALE & SANDSTONE	2.7	53.9	
692.5	CARBONDALE		SANDSTONE	0.4	56.6	
692.1	CARBONDALE		GRAY SHALE	6.3	57.0	
685.8	CARBONDALE	ANNA	DARK SHALE	2.7	63.3	
683.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.2	66.0	
680.9	CARBONDALE	HERRIN	BLUE BAND	0.2	68.2	
680.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	68.4	
679.1	CARBONDALE		UNDERCLAY	1.0	70.0	

MAPID: 05785734000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.132532

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633619

DATE COLLECTED: 5 / 12 / 1960

SURFACE ELEVATION (FT.): 749.5 LOGGED (FT.): 73.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 420

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.5	PLEISTOCENE		SOIL	1.0	0.0	
748.5	PLEISTOCENE		CLAY	22.8	1.0	
725.7	PLEISTOCENE		CLAY, SAND & GRAVEL	3.2	23.8	
722.5	PLEISTOCENE		SANDY CLAY	17.5	27.0	GRAY
705.0	PLEISTOCENE		SANDY CLAY	14.0	44.5	GREEN
691.0	CARBONDALE		GRAY SHALE	7.0	58.5	
684.0	CARBONDALE	ANNA	DARK SHALE	2.0	65.5	
682.0	CARBONDALE	ANNA	BLACK SHALE	0.3	67.5	
681.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.3	67.8	
679.4	CARBONDALE	HERRIN	BLUE BAND	0.2	70.1	
679.2	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	70.3	
677.7	CARBONDALE		UNDERCLAY	1.2	71.8	

MAPID: 05785735000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136501

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633554

DATE COLLECTED: 5 / 12 / 1960

SURFACE ELEVATION (FT.): 748.2 LOGGED (FT.): 83.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 421

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
748.2	PLEISTOCENE		SOIL	1.0	0.0
747.2	PLEISTOCENE		CLAY	18.8	1.0
728.4	PLEISTOCENE		CLAY, SAND & GRAVEL	4.5	19.8
723.9	PLEISTOCENE		CLAY & GRAVEL	25.5	24.3
698.4	PLEISTOCENE		CLAY	2.0	49.8
696.4	CARBONDALE		SANDSTONE	11.8	51.8
684.6	CARBONDALE		GRAY SHALE	11.3	63.6
673.3	CARBONDALE	ANNA	DARK SHALE	1.8	74.9
671.5	CARBONDALE		LIMESTONE	1.2	76.7
670.3	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.4	77.9
667.9	CARBONDALE	HERRIN	BLUE BAND	0.2	80.3
667.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	80.5
666.2	CARBONDALE		UNDERCLAY	1.0	82.0

MAPID: 05785736000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.13649

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635938

DATE COLLECTED: 5 / 13 / 1960

SURFACE ELEVATION (FT.): 751.7 LOGGED (FT.): 91.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 422

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
751.7	PLEISTOCENE		SOIL	1.0	0.0
750.7	PLEISTOCENE		CLAY	32.0	1.0
718.7	MODESTO		SANDY SHALE	11.2	33.0
707.5	CARBONDALE	DANVILLE	COAL	1.5	44.2
706.0	CARBONDALE		UNDERCLAY	1.3	45.7
704.7	CARBONDALE		GRAY SHALE	9.6	47.0
695.1	CARBONDALE		SANDY LIMESTONE	5.5	56.6
689.6	CARBONDALE		GRAY SHALE	18.1	62.1
671.5	CARBONDALE		DARK SHALE	6.3	80.2
665.2	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.3	86.5
662.9	CARBONDALE	HERRIN	BLUE BAND	0.2	88.8
662.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	89.0
661.1	CARBONDALE		UNDERCLAY	0.4	90.6

MAPID: 05785737000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.12827 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6336 DATE COLLECTED: 5 / 13 / 1960

SURFACE ELEVATION (FT.): 750.9 LOGGED (FT.): 70.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 423 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.9	PLEISTOCENE		SOIL	1.0	0.0	
749.9	PLEISTOCENE		CLAY	19.1	1.0	
730.8	PLEISTOCENE		CLAY & GRAVEL	3.4	20.1	YELLOW
727.5	PLEISTOCENE		CLAY & GRAVEL	14.4	23.4	GRAY
713.1	CARBONDALE		SANDSTONE	16.2	37.8	
696.8	CARBONDALE		GRAY SHALE	4.7	54.1	
692.1	CARBONDALE		DARK SHALE	3.6	58.8	
688.5	CARBONDALE	BRERETON	LIMESTONE	1.4	62.4	
687.1	CARBONDALE	ANNA	BLACK SHALE	0.6	63.8	
686.5	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.2	64.4	
684.3	CARBONDALE	HERRIN	BLUE BAND	0.2	66.6	
684.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	66.8	
682.5	CARBONDALE		UNDERCLAY	1.7	68.4	

MAPID: 05785738000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.128185 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636197 DATE COLLECTED: 5 / 23 / 1960

SURFACE ELEVATION (FT.): 749.8 LOGGED (FT.): 72.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 433 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.8	PLEISTOCENE		SOIL	1.0	0.0	
748.8	PLEISTOCENE		CLAY	19.1	1.0	
729.7	PLEISTOCENE		CLAY & GRAVEL	4.2	20.1	
725.5	PLEISTOCENE		BOULDER	2.2	24.3	
723.3	PLEISTOCENE		CLAY & GRAVEL	14.0	26.5	
709.3	PLEISTOCENE		SANDY CLAY	9.2	40.5	
700.1	CARBONDALE		SANDSTONE	6.8	49.7	
693.3	CARBONDALE		SANDY SHALE	9.8	56.5	
683.5	CARBONDALE		SANDSTONE	1.6	66.3	
681.9	CARBONDALE	HERRIN	COAL/SANDSTONE	1.1	67.9	TOP ERODED
680.8	CARBONDALE	HERRIN	BLUE BAND	0.2	69.0	
680.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.8	69.2	
678.8	CARBONDALE		UNDERCLAY	1.0	71.0	

MAPID: 05785739000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139968 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.631397 DATE COLLECTED: 10 / 29 / 1976

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25984 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0	PLEISTOCENE		SOIL	22.0	0.0	
725.0	PLEISTOCENE		SANDY CLAY	49.6	22.0	
675.4	CARBONDALE		SANDSTONE	3.6	71.6	
671.8	CARBONDALE		GRAY SHALE	2.8	75.2	
669.0	CARBONDALE		SANDSTONE	2.0	78.0	

MAPID: 05785740000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139941 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.632382 DATE COLLECTED: 11 / 2 / 1976

SURFACE ELEVATION (FT.): 747.8 LOGGED (FT.): 131.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25985 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.8	PLEISTOCENE		SOIL	25.0	0.0	
722.8	PLEISTOCENE		SANDY CLAY	10.0	25.0	
712.8	PLEISTOCENE		SANDY CLAY	27.2	35.0	GREEN
685.6	CARBONDALE	HERRIN	COAL	2.8	62.2	VERY SOFT; TOP ERODED
682.8	CARBONDALE		CLAYSTONE	2.0	65.0	
680.8	CARBONDALE		SHALE & SANDSTONE	52.5	67.0	
628.3	CARBONDALE		LIMESTONE	0.5	119.5	
627.8	CARBONDALE		DARK SHALE	2.0	120.0	
625.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	122.0	
625.4	CARBONDALE	TURNER MINE	DARK SHALE	2.6	122.4	
622.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	125.0	
621.6	CARBONDALE	SPRINGFIELD	COAL	3.6	126.2	
618.0	CARBONDALE		UNDERCLAY	1.2	129.8	

MAPID: 05785741000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139061

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.632324

DATE COLLECTED: 11 / 2 / 1976

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25986

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0	PLEISTOCENE		SOIL	21.0	0.0	
725.0	PLEISTOCENE		CLAY & GRAVEL	23.0	21.0	
702.0	PLEISTOCENE		CLAY, SAND & GRAVEL	21.5	44.0	
680.5	CARBONDALE	HERRIN	COAL	1.5	65.5	BLOSSOM:TOP ERODED
679.0	CARBONDALE		CLAYSTONE	1.2	67.0	
677.8	CARBONDALE		GRAY SHALE	1.8	68.2	

MAPID: 05785742000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139077

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.631361

DATE COLLECTED: 11 / 3 / 1976

SURFACE ELEVATION (FT.): 745.1 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25987

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.1	PLEISTOCENE		SOIL	18.3	0.0	
726.8	PLEISTOCENE		CLAY & GRAVEL	53.9	18.3	
672.9	PLEISTOCENE		BOULDER	0.8	72.2	
672.1	PLEISTOCENE		SANDY CLAY	7.0	73.0	

MAPID: 05785743000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139978

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.630459

DATE COLLECTED: 11 / 3 / 1976

SURFACE ELEVATION (FT.): 746.7 LOGGED (FT.): 135.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25988

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
746.7	PLEISTOCENE		SOIL	26.2	0.0
720.5	PLEISTOCENE		SANDY CLAY	8.6	26.2
711.9	PLEISTOCENE		CLAY, SAND & GRAVEL	27.7	34.8
684.2	CARBONDALE	BRERETON	LIMESTONE	0.4	62.5
683.8	CARBONDALE	HERRIN	COAL	2.5	62.9
681.3	CARBONDALE	HERRIN	BLUE BAND	0.2	65.4
681.1	CARBONDALE	HERRIN	COAL	0.8	65.6
680.3	CARBONDALE		UNDERCLAY	1.6	66.4
678.7	CARBONDALE		GRAY SHALE	2.0	68.0
676.7	CARBONDALE		SHALE & SANDSTONE	12.6	70.0
664.1	CARBONDALE		SANDSTONE	39.4	82.6
624.7	CARBONDALE		LIMESTONE	1.0	122.0
623.7	CARBONDALE		SANDSTONE	1.8	123.0
621.9	CARBONDALE		DARK SHALE	0.6	124.8
621.3	CARBONDALE	ST. DAVID	LIMESTONE	1.0	125.4
620.3	CARBONDALE	TURNER MINE	DARK SHALE	1.6	126.4
618.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	128.0
617.5	CARBONDALE	SPRINGFIELD	COAL	3.9	129.2
613.6	CARBONDALE		UNDERCLAY	1.9	133.1

MAPID: 05785744000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139087

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.630414

DATE COLLECTED: 11 / 4 / 1976

SURFACE ELEVATION (FT.): 747.4 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25989

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
747.4	PLEISTOCENE		SOIL	31.4	0.0
716.0	PLEISTOCENE		CLAY, SAND & GRAVEL	27.2	31.4
688.8	PLEISTOCENE		SANDY CLAY	5.4	58.6
683.4	PLEISTOCENE		CLAY	2.4	64.0 & BOULDERS
681.0	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.0	66.4 TOP ERODED
680.0	CARBONDALE		UNDERCLAY	2.6	67.4

MAPID: 05785745000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139162 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626852 DATE COLLECTED: 11 / 4 / 1976

SURFACE ELEVATION (FT.): 743.3 LOGGED (FT.): 130.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25990 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.3	PLEISTOCENE		SOIL	18.0	0.0	
725.3	PLEISTOCENE		SANDY CLAY	23.5	18.0	
701.8	CARBONDALE		GRAY SHALE	16.5	41.5	SOFT
685.3	CARBONDALE	BRERETON	LIMESTONE	0.4	58.0	
684.9	CARBONDALE		GRAY SHALE	0.3	58.4	
684.6	CARBONDALE	HERRIN	COAL	2.7	58.7	
681.9	CARBONDALE	HERRIN	BLUE BAND	0.2	61.4	
681.7	CARBONDALE	HERRIN	COAL	1.4	61.6	
680.3	CARBONDALE		UNDERCLAY	1.8	63.0	
678.5	CARBONDALE		GRAY SHALE	3.2	64.8	
675.3	CARBONDALE		SANDSTONE	51.0	68.0	
624.3	CARBONDALE	ST. DAVID	LIMESTONE	1.1	119.0	
623.2	CARBONDALE	TURNER MINE	DARK SHALE	2.4	120.1	
620.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	122.5	
619.8	CARBONDALE	SPRINGFIELD	COAL	4.0	123.5	
615.8	CARBONDALE		UNDERCLAY	2.5	127.5	

MAPID: 05785746000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139091 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.628574 DATE COLLECTED: 11 / 5 / 1976

SURFACE ELEVATION (FT.): 743.6 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25991 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
743.6	PLEISTOCENE		SOIL	24.5	0.0
719.1	PLEISTOCENE		CLAY & GRAVEL	14.2	24.5
704.9	PLEISTOCENE		BOULDER	0.8	38.7
704.1	PLEISTOCENE		CLAY	1.5	39.5
702.6	CARBONDALE		SANDSTONE	7.0	41.0
695.6	CARBONDALE		GRAY SHALE	13.5	48.0
682.1	CARBONDALE	ANNA	DARK SHALE	1.8	61.5
680.3	CARBONDALE	HERRIN	COAL	2.5	63.3
677.8	CARBONDALE	HERRIN	BLUE BAND	0.2	65.8
677.6	CARBONDALE	HERRIN	COAL	0.8	66.0
676.8	CARBONDALE		UNDERCLAY	1.8	66.8
675.0	CARBONDALE		GRAY SHALE	1.4	68.6

MAPID: 05785747000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.13913 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.627688 DATE COLLECTED: 11 / 5 / 1976

SURFACE ELEVATION (FT.): 742.7 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25992 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
742.7	PLEISTOCENE		SOIL	1.0	0.0
741.7	PLEISTOCENE		SANDY CLAY	17.1	1.0
724.6	PLEISTOCENE		CLAY & GRAVEL	17.9	18.1
706.7	CARBONDALE		GRAY SANDSTONE	13.5	36.0
693.2	CARBONDALE		GRAY SHALE	5.5	49.5
687.7	CARBONDALE	BRERETON	LIMESTONE	0.3	55.0
687.4	CARBONDALE		DARK SHALE	3.7	55.3
683.7	CARBONDALE	HERRIN	COAL	2.5	59.0
681.2	CARBONDALE	HERRIN	BLUE BAND	0.2	61.5
681.0	CARBONDALE	HERRIN	COAL	1.4	61.7
679.6	CARBONDALE		UNDERCLAY	1.9	63.1
677.7	CARBONDALE		GRAY SHALE	2.0	65.0

MAPID: 05785748000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139634

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.627721

DATE COLLECTED: 11 / 5 / 1976

SURFACE ELEVATION (FT.): 744.4 LOGGED (FT.): 64.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25993

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
744.4	PLEISTOCENE		SOIL	1.0	0.0
743.4	PLEISTOCENE		SANDY CLAY	19.0	1.0
724.4	PLEISTOCENE		BOULDER	1.8	20.0
722.6	PLEISTOCENE		CLAY & GRAVEL	3.1	21.8
719.5	PLEISTOCENE		CLAY, SAND & GRAVEL	13.1	24.9
706.4	CARBONDALE		GRAY SANDSTONE	5.5	38.0
700.9	CARBONDALE		GRAY SHALE	13.5	43.5
687.4	CARBONDALE	ANNA	DARK SHALE	1.3	57.0
686.1	CARBONDALE	HERRIN	COAL	2.5	58.3
683.6	CARBONDALE	HERRIN	BLUE BAND	0.2	60.8
683.4	CARBONDALE	HERRIN	COAL	1.3	61.0
682.1	CARBONDALE		UNDERCLAY	1.7	62.3

MAPID: 05785749000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.140023

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.62951

DATE COLLECTED: 11 / 5 / 1976

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 67.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25994

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
745.0	PLEISTOCENE		SOIL	27.8	0.0
717.2	PLEISTOCENE		CLAY & GRAVEL	11.2	27.8
706.0	CARBONDALE		SANDSTONE	7.0	39.0
699.0	CARBONDALE		GRAY SHALE	15.3	46.0
683.7	CARBONDALE	HERRIN	COAL	2.0	61.3
681.7	CARBONDALE	HERRIN	BLUE BAND	0.2	63.3
681.5	CARBONDALE	HERRIN	COAL	1.5	63.5
680.0	CARBONDALE		UNDERCLAY	2.0	65.0

MAPID: 05785750000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.140008

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.62858

DATE COLLECTED: 11 / 9 / 1976

SURFACE ELEVATION (FT.): 744.1 LOGGED (FT.): 137.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25995

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
744.1	PLEISTOCENE		SOIL	30.0	0.0
714.1	PLEISTOCENE		SANDY CLAY	6.5	30.0
707.6	CARBONDALE		SANDY SHALE	3.5	36.5
704.1	CARBONDALE		SANDSTONE	12.5	40.0
691.6	CARBONDALE		GRAY SHALE	8.9	52.5
682.7	CARBONDALE		DARK SHALE	3.4	61.4
679.3	CARBONDALE	HERRIN	COAL	2.0	64.8
677.3	CARBONDALE	HERRIN	BLUE BAND	0.2	66.8
677.1	CARBONDALE	HERRIN	COAL	1.4	67.0
675.7	CARBONDALE		UNDERCLAY	1.6	68.4
674.1	CARBONDALE		GRAY SHALE	1.0	70.0
673.1	CARBONDALE		SANDSTONE	56.6	71.0
616.5	CARBONDALE	ST. DAVID	LIMESTONE	1.9	127.6
614.6	CARBONDALE	TURNER MINE	DARK SHALE	1.0	129.5
613.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	130.5
612.5	CARBONDALE	SPRINGFIELD	COAL	3.8	131.6
608.7	CARBONDALE		UNDERCLAY	1.6	135.4

MAPID: 05785751000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139118 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629506 DATE COLLECTED: 11 / 9 / 1976

SURFACE ELEVATION (FT.): 745.6 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25996 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.6	PLEISTOCENE		SOIL	29.2	0.0	
716.4	PLEISTOCENE		SANDY CLAY	10.8	29.2	
705.6	CARBONDALE		SANDSTONE	11.5	40.0	
694.1	CARBONDALE		GRAY SHALE	8.5	51.5	
685.6	CARBONDALE	BRERETON	LIMESTONE	1.6	60.0	
684.0	CARBONDALE		CLAYSTONE	0.4	61.6	WHITE TOP
683.6	CARBONDALE	HERRIN	COAL	2.3	62.0	
681.3	CARBONDALE	HERRIN	BLUE BAND	0.2	64.3	
681.1	CARBONDALE	HERRIN	COAL	1.1	64.5	
680.0	CARBONDALE		UNDERCLAY	2.4	65.6	

MAPID: 05785752000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131713 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633513 DATE COLLECTED: 11 / 10 / 1976

SURFACE ELEVATION (FT.): 748.4 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25997 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.4	PLEISTOCENE		SOIL	1.0	0.0	
747.4	PLEISTOCENE		SANDY CLAY	27.0	1.0	YELLOW
720.4	PLEISTOCENE		SANDY CLAY	52.0	28.0	GRAY

MAPID: 05785753000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131578

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.632573

DATE COLLECTED: 11 / 10 / 1976

SURFACE ELEVATION (FT.): 748.0 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25998

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.0	PLEISTOCENE		SOIL	1.0	0.0	
747.0	PLEISTOCENE		SANDY CLAY	26.2	1.0	
720.8	PLEISTOCENE		CLAY & GRAVEL	52.8	27.2	

MAPID: 05785754000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131584

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63086

DATE COLLECTED: 11 / 10 / 1976

SURFACE ELEVATION (FT.): 746.2 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25998

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.2	PLEISTOCENE		SOIL	1.0	0.0	
745.2	PLEISTOCENE		SANDY CLAY	21.5	1.0	YELLOW
723.7	PLEISTOCENE		SANDY CLAY	14.9	22.5	GRAY
708.8	PLEISTOCENE		CLAY, SAND & GRAVEL	12.6	37.4	
696.2	PLEISTOCENE		CLAY & GRAVEL	30.0	50.0	

MAPID: 05785755000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131619

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629144

DATE COLLECTED: 11 / 10 / 1976

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26137

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0	PLEISTOCENE		SOIL	1.0	0.0	
745.0	PLEISTOCENE		SANDY CLAY	23.8	1.0	YELLOW
721.2	PLEISTOCENE		SANDY CLAY	49.7	24.8	GRAY
671.5			GRAY SHALE	5.5	74.5	

MAPID: 05785757000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.131807 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626328 DATE COLLECTED: 11 / 11 / 1976

SURFACE ELEVATION (FT.): 740.5 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26139 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
740.5	PLEISTOCENE		SOIL	1.0	0.0
739.5	PLEISTOCENE		SANDY CLAY	24.5	1.0
715.0	PLEISTOCENE		CLAY & GRAVEL	24.5	25.5
690.5	PLEISTOCENE		CLAY, SAND & GRAVEL	30.0	50.0

MAPID: 05785758000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130808 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626408 DATE COLLECTED: 11 / 11 / 1976

SURFACE ELEVATION (FT.): 739.6 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26140 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
739.6	PLEISTOCENE		SOIL	1.0	0.0
738.6	PLEISTOCENE		SANDY CLAY	25.6	1.0
713.0	PLEISTOCENE		CLAY & GRAVEL	41.4	26.6
671.6	CARBONDALE		SANDY SHALE	16.8	68.0
654.8	CARBONDALE		LIMESTONE	0.4	84.8
654.4	CARBONDALE		GRAY SHALE	4.8	85.2

MAPID: 05785759000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130808

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.627228

DATE COLLECTED: 11 / 11 / 1976

SURFACE ELEVATION (FT.): 740.0 LOGGED (FT.): 128.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26141

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
740.0	PLEISTOCENE		SOIL	23.8	0.0
716.2	PLEISTOCENE		CLAY & GRAVEL	46.2	23.8
670.0	CARBONDALE		GRAY SHALE	11.5	70.0
658.5	CARBONDALE		SANDSTONE	3.5	81.5
655.0	CARBONDALE		GRAY SHALE	7.3	85.0
647.7	CARBONDALE		SANDSTONE	26.2	92.3
621.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	118.5
621.1	CARBONDALE	TURNER MINE	DARK SHALE	1.6	118.9
619.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	120.5
617.7	CARBONDALE	SPRINGFIELD	COAL	3.7	122.3
614.0	CARBONDALE		UNDERCLAY	2.0	126.0

MAPID: 05785760000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130752 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.628947 DATE COLLECTED:

SURFACE ELEVATION (FT.): 745.6 LOGGED (FT.): 136.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26142 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.6	PLEISTOCENE		SOIL	1.0	0.0	
744.6	PLEISTOCENE		CLAY	27.0	1.0	
717.6	PLEISTOCENE		CLAY & GRAVEL	4.8	28.0	
712.8	PLEISTOCENE		CLAY, SAND & GRAVEL	15.8	32.8	
697.0	CARBONDALE		SHALE	8.9	48.6	VERY SOFT
688.1	CARBONDALE		DARK SHALE	0.3	57.5	
687.8	CARBONDALE	BRERETON	LIMESTONE	0.2	57.8	
687.6	CARBONDALE	ANNA	DARK SHALE	2.0	58.0	
685.6	CARBONDALE	HERRIN	COAL	2.7	60.0	
682.9	CARBONDALE	HERRIN	BLUE BAND	0.2	62.7	
682.7	CARBONDALE	HERRIN	COAL	1.1	62.9	
681.6	CARBONDALE		UNDERCLAY	2.0	64.0	
679.6	CARBONDALE		GRAY SHALE	30.0	66.0	
649.6	CARBONDALE		SANDSTONE	11.6	96.0	SOFT
638.0	CARBONDALE		SANDSTONE	12.8	107.6	
625.2	CARBONDALE		LIMESTONE	1.2	120.4	
624.0	CARBONDALE		DARK SHALE	1.8	121.6	
622.2	CARBONDALE	ST. DAVID	LIMESTONE	0.6	123.4	
621.6	CARBONDALE	TURNER MINE	DARK SHALE	3.2	124.0	
618.4	CARBONDALE	SPRINGFIELD	COAL	4.0	127.2	
614.4	CARBONDALE		SHALE/UNDERCLAY	4.8	131.2	

MAPID: 05785761000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.139016 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633306 DATE COLLECTED: 10 / 29 / 1976

SURFACE ELEVATION (FT.): 746.6 LOGGED (FT.): 131.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26404 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.6	PLEISTOCENE		SOIL	4.0	0.0	
742.6	PLEISTOCENE		CLAY	29.5	4.0	YELLOW
713.1	PLEISTOCENE		CLAY	68.0	33.5	GRAY
645.1	CARBONDALE		SHALE & SANDSTONE	19.5	101.5	
625.6	CARBONDALE		DARK SHALE	1.5	121.0	
624.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	122.5	
623.7	CARBONDALE	TURNER MINE	DARK SHALE	2.2	122.9	
621.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	125.1	
620.8	CARBONDALE	SPRINGFIELD	COAL	3.8	125.8	
617.0	CARBONDALE		UNDERCLAY	1.4	129.6	

MAPID: 05785762000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138074 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633311 DATE COLLECTED: 11 / 1 / 1976

SURFACE ELEVATION (FT.): 748.4 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26405 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.4	PLEISTOCENE		SOIL	3.5	0.0	
744.9	PLEISTOCENE		CLAY	25.5	3.5	YELLOW
719.4	PLEISTOCENE		CLAY	61.0	29.0	GRAY

MAPID: 05785763000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138139 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.631291 DATE COLLECTED: 11 / 1 / 1976

SURFACE ELEVATION (FT.): 748.1 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26406 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.1	PLEISTOCENE		SOIL	3.5	0.0	
744.6	PLEISTOCENE		CLAY	25.0	3.5	
719.6	PLEISTOCENE		CLAY & GRAVEL	61.5	28.5	

MAPID: 05785764000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138162 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629473 DATE COLLECTED: 11 / 1 / 1976

SURFACE ELEVATION (FT.): 745.2 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26407 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.2	PLEISTOCENE		SOIL	3.5	0.0	
741.7	PLEISTOCENE		CLAY	29.0	3.5	YELLOW
712.7	PLEISTOCENE		CLAY	24.0	32.5	GRAY
688.7	CARBONDALE		GRAY SHALE	6.5	56.5	
682.2	CARBONDALE		DARK SHALE	3.9	63.0	
678.3	CARBONDALE	HERRIN	COAL	2.6	66.9	
675.7	CARBONDALE	HERRIN	BLUE BAND	0.2	69.5	
675.5	CARBONDALE	HERRIN	COAL	1.3	69.7	
674.2	CARBONDALE		UNDERCLAY	4.0	71.0	

MAPID: 05785765000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138194

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626714

DATE COLLECTED: 11 / 2 / 1976

SURFACE ELEVATION (FT.): 739.9 LOGGED (FT.): 130.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26408

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.9	PLEISTOCENE		SOIL	3.5	0.0	
736.4	PLEISTOCENE		CLAY	21.5	3.5	
714.9	PLEISTOCENE		UNCONSOLIDATED	23.6	25.0	
691.3	CARBONDALE		GRAY SHALE	7.4	48.6	
683.9	CARBONDALE		DARK SHALE	3.4	56.0	
680.5	CARBONDALE	HERRIN	COAL	2.1	59.4	
678.4	CARBONDALE	HERRIN	BLUE BAND	0.2	61.5	
678.2	CARBONDALE	HERRIN	COAL	1.4	61.7	
676.8	CARBONDALE		UNDERCLAY	1.7	63.1	
675.1	CARBONDALE		SHALE & SANDSTONE	52.5	64.8	
622.6	CARBONDALE		DARK SHALE	2.6	117.3	
620.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	119.9	
619.6	CARBONDALE	TURNER MINE	DARK SHALE	2.3	120.3	
617.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	122.6	
616.4	CARBONDALE	SPRINGFIELD	COAL	3.8	123.5	
612.6	CARBONDALE		UNDERCLAY	2.7	127.3	

MAPID: 05785766000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138185

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.627674

DATE COLLECTED: 11 / 2 / 1976

SURFACE ELEVATION (FT.): 742.8 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26409

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.8	PLEISTOCENE		SOIL	3.5	0.0	
739.3	PLEISTOCENE		CLAY	22.5	3.5	YELLOW
716.8	PLEISTOCENE		CLAY	30.2	26.0	GRAY
686.6	CARBONDALE		GRAY SHALE	5.8	56.2	
680.8	CARBONDALE	ANNA	BLACK SHALE	0.8	62.0	
680.0	CARBONDALE	HERRIN	COAL	2.2	62.8	
677.8	CARBONDALE	HERRIN	BLUE BAND	0.2	65.0	
677.6	CARBONDALE	HERRIN	COAL	1.3	65.2	
676.3	CARBONDALE		UNDERCLAY	3.5	66.5	

MAPID: 05785767000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138176

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.628609

DATE COLLECTED: 11 / 3 / 1976

SURFACE ELEVATION (FT.): 744.3 LOGGED (FT.): 138.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26410

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.3	PLEISTOCENE		SOIL	3.5	0.0	
740.8	PLEISTOCENE		CLAY	29.0	3.5	YELLOW
711.8	PLEISTOCENE		CLAY	8.5	32.5	GRAY
703.3	CARBONDALE		SANDSTONE	10.6	41.0	
692.7	CARBONDALE		GRAY SHALE	9.9	51.6	
682.8	CARBONDALE		DARK SHALE	1.0	61.5	
681.8	CARBONDALE	BRERETON	LIMESTONE	2.1	62.5	
679.7	CARBONDALE		CLAYSTONE	0.4	64.6	WHITE TOP
679.3	CARBONDALE	HERRIN	COAL	2.4	65.0	
676.9	CARBONDALE	HERRIN	BLUE BAND	0.2	67.4	
676.7	CARBONDALE	HERRIN	COAL	1.4	67.6	
675.3	CARBONDALE		UNDERCLAY	1.6	69.0	
673.7	CARBONDALE		SHALE & SANDSTONE	19.4	70.6	
654.3	CARBONDALE		SANDSTONE	39.9	90.0	
614.4	CARBONDALE	ST. DAVID	LIMESTONE	0.5	129.9	
613.9	CARBONDALE	TURNER MINE	DARK SHALE	1.8	130.4	
612.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	132.2	
611.3	CARBONDALE	SPRINGFIELD	COAL	3.9	133.0	
607.4	CARBONDALE		UNDERCLAY	1.1	136.9	

MAPID: 05785768000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.138148 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.630375 DATE COLLECTED: 11 / 3 / 1976

SURFACE ELEVATION (FT.): 746.6 LOGGED (FT.): 141.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26411 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.6	PLEISTOCENE		SOIL	3.5	0.0	
743.1	PLEISTOCENE		CLAY	29.5	3.5	YELLOW
713.6	PLEISTOCENE		CLAY	15.3	33.0	GRAY
698.3	CARBONDALE		SANDSTONE	9.7	48.3	
688.6	CARBONDALE		GRAY SHALE	10.5	58.0	
678.1	CARBONDALE	ANNA	DARK SHALE	1.5	68.5	
676.6	CARBONDALE	HERRIN	COAL	3.1	70.0	
673.5	CARBONDALE		UNDERCLAY	1.6	73.1	
671.9	CARBONDALE		SHALE & SANDSTONE	58.2	74.7	
613.7	CARBONDALE	ST. DAVID	LIMESTONE	0.5	132.9	
613.2	CARBONDALE	TURNER MINE	DARK SHALE	1.1	133.4	
612.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	134.5	
611.3	CARBONDALE	SPRINGFIELD	COAL	4.0	135.3	
607.3	CARBONDALE		UNDERCLAY	1.7	139.3	

MAPID: 05785769000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136857 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63252 DATE COLLECTED: 11 / 4 / 1976

SURFACE ELEVATION (FT.): 746.2 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26412 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.2	PLEISTOCENE		SOIL	3.5	0.0	
742.7	PLEISTOCENE		CLAY	26.5	3.5	
716.2	PLEISTOCENE		UNCONSOLIDATED	60.0	30.0	

MAPID: 05785770000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136928

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.631554

DATE COLLECTED: 11 / 4 / 1976

SURFACE ELEVATION (FT.): 744.2 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26413

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
744.2	PLEISTOCENE		SOIL	3.5	0.0
740.7	PLEISTOCENE		CLAY	25.5	3.5
715.2	PLEISTOCENE		UNCONSOLIDATED	61.0	29.0

MAPID: 05785771000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136923

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.630649

DATE COLLECTED: 11 / 4 / 1976

SURFACE ELEVATION (FT.): 743.1 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26414

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
743.1	PLEISTOCENE		SOIL	3.5	0.0
739.6	PLEISTOCENE		CLAY	24.5	3.5
715.1	PLEISTOCENE		UNCONSOLIDATED	62.0	28.0

MAPID: 05785772000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136976

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629728

DATE COLLECTED: 11 / 5 / 1976

SURFACE ELEVATION (FT.): 741.9 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26415

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
741.9	PLEISTOCENE		SOIL	3.5	0.0
738.4	PLEISTOCENE		CLAY	24.0	3.5
714.4	PLEISTOCENE		UNCONSOLIDATED	52.5	27.5
661.9	CARBONDALE		MICACEOUS SHALE	10.0	80.0

MAPID: 05785773000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.136961

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.628842

DATE COLLECTED: 11 / 5 / 1976

SURFACE ELEVATION (FT.): 743.4 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26416

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.4	PLEISTOCENE		SOIL	3.5	0.0	
739.9	PLEISTOCENE		CLAY	25.0	3.5	YELLOW
714.9	PLEISTOCENE		CLAY	17.0	28.5	GRAY
697.9	CARBONDALE		SANDSTONE	7.6	45.5	
690.3	CARBONDALE		SHALE & SANDSTONE	6.3	53.1	
684.0	CARBONDALE		GRAY SHALE	6.1	59.4	
677.9	CARBONDALE	BRERETON	LIMESTONE	2.8	65.5	
675.1	CARBONDALE		CLAYSTONE	0.6	68.3	WHITE TOP
674.5	CARBONDALE	HERRIN	COAL	2.1	68.9	
672.4	CARBONDALE	HERRIN	BLUE BAND	0.2	71.0	
672.2	CARBONDALE	HERRIN	COAL	1.3	71.2	
670.9	CARBONDALE		UNDERCLAY	2.5	72.5	

MAPID: 05785774000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.137011

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.628006

DATE COLLECTED: 11 / 5 / 1976

SURFACE ELEVATION (FT.): 742.2 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26417

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.2	PLEISTOCENE		SOIL	3.5	0.0	
738.7	PLEISTOCENE		CLAY	58.5	3.5	YELLOW
680.2	PLEISTOCENE		CLAY	13.5	62.0	GRAY
666.7	CARBONDALE		MICACEOUS SHALE	14.5	75.5	

MAPID: 05785775000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.13708 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.627244 DATE COLLECTED: 11 / 5 / 1976

SURFACE ELEVATION (FT.): 741.2 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26418 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.2	PLEISTOCENE		SOIL	3.5	0.0	
737.7	PLEISTOCENE		CLAY	24.5	3.5	
713.2	PLEISTOCENE		UNCONSOLIDATED	19.5	28.0	
693.7	CARBONDALE		SANDSTONE	7.7	47.5	
686.0	CARBONDALE		GRAY SHALE	9.5	55.2	
676.5	CARBONDALE	HERRIN	COAL	3.3	64.7	
673.2	CARBONDALE		UNDERCLAY	2.0	68.0	

MAPID: 05785777000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.135627 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633465 DATE COLLECTED: 11 / 8 / 1976

SURFACE ELEVATION (FT.): 747.7 LOGGED (FT.): 152.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26419 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.7	PLEISTOCENE		SOIL	3.5	0.0	
744.2	PLEISTOCENE		CLAY	25.5	3.5	YELLOW
718.7	PLEISTOCENE		CLAY	19.7	29.0	GRAY
699.0	CARBONDALE		SANDSTONE	17.5	48.7	
681.5	CARBONDALE		GRAY SHALE	12.8	66.2	
668.7	CARBONDALE	HERRIN	COAL	2.2	79.0	
666.5	CARBONDALE	HERRIN	BLUE BAND	0.2	81.2	
666.3	CARBONDALE	HERRIN	COAL	1.6	81.4	
664.7	CARBONDALE		UNDERCLAY	1.7	83.0	
663.0	CARBONDALE		SHALE & SANDSTONE	37.3	84.7	
625.7	CARBONDALE		SANDSTONE	17.6	122.0	
608.1	CARBONDALE		DARK SHALE	2.7	139.6	
605.4	CARBONDALE	ST. DAVID	LIMESTONE	0.5	142.3	
604.9	CARBONDALE	TURNER MINE	DARK SHALE	2.3	142.8	
602.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	145.1	
601.6	CARBONDALE	SPRINGFIELD	COAL	3.9	146.1	
597.7	CARBONDALE		UNDERCLAY	2.0	150.0	

MAPID: 05785778000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.135637 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.632549 DATE COLLECTED: 11 / 8 / 1976

SURFACE ELEVATION (FT.): 746.7 LOGGED (FT.): 84.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26420 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.7	PLEISTOCENE		SOIL	3.5	0.0	
743.2	PLEISTOCENE		CLAY	28.5	3.5	YELLOW
714.7	PLEISTOCENE		CLAY	19.0	32.0	GRAY
695.7	CARBONDALE		SANDSTONE	8.2	51.0	
687.5	CARBONDALE		GRAY SHALE	14.3	59.2	
673.2	CARBONDALE		DARK SHALE	3.5	73.5	
669.7	CARBONDALE	HERRIN	COAL	2.2	77.0	
667.5	CARBONDALE	HERRIN	BLUE BAND	0.2	79.2	
667.3	CARBONDALE	HERRIN	COAL	1.7	79.4	
665.6	CARBONDALE		UNDERCLAY	2.9	81.1	

MAPID: 05785779000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.135661 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.631641 DATE COLLECTED: 11 / 9 / 1976

SURFACE ELEVATION (FT.): 745.7 LOGGED (FT.): 145.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26421 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.7	PLEISTOCENE		SOIL	3.5	0.0	
742.2	PLEISTOCENE		CLAY	21.5	3.5	
720.7	PLEISTOCENE		UNCONSOLIDATED	83.5	25.0	
637.2	CARBONDALE		SHALE & SANDSTONE	28.5	108.5	
608.7	CARBONDALE	ST. DAVID	LIMESTONE	0.5	137.0	
608.2	CARBONDALE	TURNER MINE	DARK SHALE	1.4	137.5	
606.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	138.9	
605.9	CARBONDALE	SPRINGFIELD	COAL	4.0	139.8	
601.9	CARBONDALE		UNDERCLAY	1.2	143.8	

MAPID: 05785780000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.135645

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629864

DATE COLLECTED: 11 / 9 / 1976

SURFACE ELEVATION (FT.): 743.5 LOGGED (FT.): 146.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26422

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.5	PLEISTOCENE		SOIL	3.5	0.0	
740.0	PLEISTOCENE		CLAY	25.2	3.5	YELLOW
714.8	PLEISTOCENE		CLAY	83.8	28.7	GRAY
631.0	CARBONDALE		SHALE & SANDSTONE	25.1	112.5	
605.9	CARBONDALE	ST. DAVID	LIMESTONE	0.4	137.6	
605.5	CARBONDALE	TURNER MINE	DARK SHALE	2.1	138.0	
603.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	140.1	
602.5	CARBONDALE	SPRINGFIELD	COAL	3.8	141.0	
598.7	CARBONDALE		UNDERCLAY	1.2	144.8	

MAPID: 05785781000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.135672

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.628021

DATE COLLECTED: 11 / 10 / 1976

SURFACE ELEVATION (FT.): 740.5 LOGGED (FT.): 135.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26423

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.5	PLEISTOCENE		SOIL	3.5	0.0	
737.0	PLEISTOCENE		CLAY	23.5	3.5	YELLOW
713.5	PLEISTOCENE		CLAY	60.3	27.0	GRAY
653.2	CARBONDALE		SHALE & SANDSTONE	38.0	87.3	
615.2	CARBONDALE	ST. DAVID	LIMESTONE	0.5	125.3	
614.7	CARBONDALE	TURNER MINE	DARK SHALE	2.2	125.8	
612.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	128.0	
611.5	CARBONDALE	SPRINGFIELD	COAL	4.1	129.0	
607.4	CARBONDALE		UNDERCLAY	1.9	133.1	

MAPID: 05785782000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.1357 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626333 DATE COLLECTED: 11 / 10 / 1976

SURFACE ELEVATION (FT.): 739.2 LOGGED (FT.): 135.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26424 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.2	PLEISTOCENE		SOIL	3.5	0.0	
735.7	PLEISTOCENE		CLAY	23.5	3.5	YELLOW
712.2	PLEISTOCENE		CLAY	52.2	27.0	GRAY
660.0	CARBONDALE		SHALE & SANDSTONE	46.3	79.2	
613.7	CARBONDALE	ST. DAVID	LIMESTONE	0.6	125.5	
613.1	CARBONDALE	TURNER MINE	DARK SHALE	1.9	126.1	
611.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	128.0	
610.4	CARBONDALE	SPRINGFIELD	COAL	3.8	128.8	
606.6	CARBONDALE		UNDERCLAY	2.4	132.6	

MAPID: 05785783000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.13696 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626353 DATE COLLECTED: 11 / 10 / 1976

SURFACE ELEVATION (FT.): 738.3 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26425 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.3	PLEISTOCENE		SOIL	3.5	0.0	
734.8	PLEISTOCENE		CLAY	24.5	3.5	
710.3	PLEISTOCENE		UNCONSOLIDATED	26.5	28.0	
683.8	CARBONDALE		GRAY SHALE	1.7	54.5	
682.1	CARBONDALE	BRERETON	LIMESTONE	3.4	56.2	
678.7	CARBONDALE		CLAYSTONE	0.5	59.6	WHITE TOP
678.2	CARBONDALE	HERRIN	COAL	3.0	60.1	
675.2	CARBONDALE		UNDERCLAY	1.9	63.1	

MAPID: 05785784000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133169 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626371 DATE COLLECTED: 11 / 11 / 1976

SURFACE ELEVATION (FT.): 732.3 LOGGED (FT.): 121.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26426 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.3	PLEISTOCENE		SOIL	3.5	0.0	
728.8	PLEISTOCENE		CLAY	17.0	3.5	YELLOW
711.8	PLEISTOCENE		CLAY	22.7	20.5	GRAY
689.1	PLEISTOCENE		CLAY & GRAVEL	72.0	43.2	
617.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	115.2	
616.5	CARBONDALE	SPRINGFIELD	COAL	3.6	115.8	
612.9	CARBONDALE		UNDERCLAY	1.6	119.4	

MAPID: 05785785000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133125 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6279 DATE COLLECTED: 11 / 12 / 1976

SURFACE ELEVATION (FT.): 738.6 LOGGED (FT.): 130.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26427 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.6	PLEISTOCENE		SOIL	3.5	0.0	
735.1	PLEISTOCENE		CLAY	22.5	3.5	YELLOW
712.6	PLEISTOCENE		CLAY	88.0	26.0	GRAY
624.6	CARBONDALE		SHALE & SANDSTONE	7.6	114.0	
617.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	121.6	
616.6	CARBONDALE	TURNER MINE	DARK SHALE	1.5	122.0	
615.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	123.5	
613.9	CARBONDALE	SPRINGFIELD	COAL	3.4	124.7	
610.5	CARBONDALE		UNDERCLAY	1.9	128.1	

MAPID: 05785786000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133058

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629726

DATE COLLECTED: 11 / 12 / 1976

SURFACE ELEVATION (FT.): 743.4 LOGGED (FT.): 137.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26428

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.4	PLEISTOCENE		SOIL	3.5	0.0	
739.9	PLEISTOCENE		CLAY	24.5	3.5	YELLOW
715.4	PLEISTOCENE		CLAY	68.0	28.0	GRAY
647.4	CARBONDALE		GRAY SHALE	25.5	96.0	
621.9	CARBONDALE		DARK SHALE	7.1	121.5	
614.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	128.6	
614.4	CARBONDALE	TURNER MINE	DARK SHALE	1.5	129.0	
612.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	130.5	
611.7	CARBONDALE	SPRINGFIELD	COAL	3.8	131.7	
607.9	CARBONDALE		UNDERCLAY	1.5	135.5	

MAPID: 05785787000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133021

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.631583

DATE COLLECTED: 11 / 15 / 1976

SURFACE ELEVATION (FT.): 743.9 LOGGED (FT.): 135.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26429

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.9	PLEISTOCENE		SOIL	3.5	0.0	
740.4	PLEISTOCENE		CLAY	21.4	3.5	YELLOW
719.0	PLEISTOCENE		CLAY	52.1	24.9	GRAY
666.9	CARBONDALE		SHALE & SANDSTONE	50.1	77.0	
616.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	127.1	
616.4	CARBONDALE	TURNER MINE	SHALE	2.0	127.5	
614.4	CARBONDALE	SPRINGFIELD	COAL	3.8	129.5	
610.6	CARBONDALE		UNDERCLAY	1.7	133.3	

MAPID: 05785788000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.133016

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633465

DATE COLLECTED: 11 / 15 / 1976

SURFACE ELEVATION (FT.): 747.7 LOGGED (FT.): 141.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26430

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.7	PLEISTOCENE		SOIL	3.5	0.0	
744.2	PLEISTOCENE		CLAY	23.5	3.5	YELLOW
720.7	PLEISTOCENE		CLAY	38.8	27.0	GRAY
681.9	CARBONDALE	BRERETON	LIMESTONE	1.7	65.8	
680.2	CARBONDALE		CLAYSTONE	0.5	67.5	WHITE TOP
679.7	CARBONDALE	HERRIN	COAL	2.4	68.0	
677.3	CARBONDALE	HERRIN	BLUE BAND	0.2	70.4	
677.1	CARBONDALE	HERRIN	COAL	1.4	70.6	
675.7	CARBONDALE		UNDERCLAY	1.7	72.0	
674.0	CARBONDALE		SHALE & SANDSTONE	57.3	73.7	
616.7	CARBONDALE		DARK SHALE	1.6	131.0	
615.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	132.6	
614.7	CARBONDALE	TURNER MINE	DARK SHALE	1.2	133.0	
613.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	134.2	
612.6	CARBONDALE	SPRINGFIELD	COAL	4.1	135.1	
608.5	CARBONDALE		UNDERCLAY	1.8	139.2	

MAPID: 05785789000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130707 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.630795 DATE COLLECTED: 11 / 16 / 1976

SURFACE ELEVATION (FT.): 747.2 LOGGED (FT.): 137.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26431 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.2	PLEISTOCENE		SOIL	3.5	0.0	
743.7	PLEISTOCENE		CLAY	28.5	3.5	YELLOW
715.2	PLEISTOCENE		CLAY	31.7	32.0	GRAY
683.5	CARBONDALE	ANNA	DARK SHALE	0.8	63.7	
682.7	CARBONDALE	HERRIN	COAL	2.0	64.5	
680.7	CARBONDALE		UNDERCLAY	1.6	66.5	
679.1	CARBONDALE		MICACEOUS SHALE	59.8	68.1	
619.3	CARBONDALE	ST. DAVID	LIMESTONE	0.4	127.9	
618.9	CARBONDALE	TURNER MINE	DARK SHALE	1.8	128.3	
617.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	130.1	
616.2	CARBONDALE	SPRINGFIELD	COAL	4.0	131.0	
612.2	CARBONDALE		UNDERCLAY	2.0	135.0	

MAPID: 05785790000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.130666 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.632636 DATE COLLECTED: 11 / 16 / 1976

SURFACE ELEVATION (FT.): 750.1 LOGGED (FT.): 138.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26432 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.1	PLEISTOCENE		SOIL	3.5	0.0	
746.6	PLEISTOCENE		CLAY	30.1	3.5	YELLOW
716.5	PLEISTOCENE		CLAY	28.1	33.6	GRAY
688.4	CARBONDALE		GRAY SHALE	6.0	61.7	
682.4	CARBONDALE	HERRIN	COAL	2.7	67.7	
679.7	CARBONDALE		UNDERCLAY	1.8	70.4	
677.9	CARBONDALE		SHALE & SANDSTONE	32.9	72.2	
645.0	CARBONDALE		SANDSTONE	23.5	105.1	
621.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	128.6	
621.1	CARBONDALE	TURNER MINE	DARK SHALE	1.6	129.0	
619.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	130.6	
618.1	CARBONDALE	SPRINGFIELD	COAL	4.1	132.0	
614.0	CARBONDALE		UNDERCLAY	1.9	136.1	

MAPID: 05785843000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.125923

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633621

DATE COLLECTED: 5 / 14 / 1960

SURFACE ELEVATION (FT.): 753.3 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 424

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
753.3	PLEISTOCENE		SOIL	1.0	0.0	
752.3	PLEISTOCENE		SOIL	19.5	1.0	
732.8	PLEISTOCENE		CLAY	5.6	20.5	& BOULDERS
727.2	PLEISTOCENE		CLAY & GRAVEL	17.5	26.1	
709.7	PLEISTOCENE		SANDY CLAY	2.0	43.6	
707.7	CARBONDALE		SANDSTONE	12.0	45.6	
695.7	CARBONDALE		GRAY SHALE	8.4	57.6	
687.3	CARBONDALE	ANNA	DARK SHALE	2.8	66.0	
684.5	CARBONDALE	ANNA	BLACK SHALE	0.8	68.8	
683.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.4	69.6	
681.3	CARBONDALE	HERRIN	BLUE BAND	0.2	72.0	
681.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	72.2	
679.6	CARBONDALE		UNDERCLAY	1.3	73.7	

MAPID: 05785844000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW

LONGITUDE: -90.125871

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 40.636253

DATE COLLECTED: 5 / 14 / 1960

SURFACE ELEVATION (FT.): 750.0

LOGGED (FT.): 70.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 425

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.0	PLEISTOCENE		SOIL	1.0	0.0	
749.0	PLEISTOCENE		SANDY CLAY	25.1	1.0	YELLOW
723.9	PLEISTOCENE		SANDY CLAY	11.8	26.1	GRAY
712.1	CARBONDALE		SANDY SHALE	5.5	37.9	
706.6	CARBONDALE		SANDSTONE	11.7	43.4	
694.9	CARBONDALE		GRAY SHALE	4.0	55.1	
690.9	CARBONDALE		DARK SHALE	1.7	59.1	
689.2	CARBONDALE	BRERETON	LIMESTONE	1.4	60.8	
687.8	CARBONDALE	ANNA	BLACK SHALE	1.2	62.2	
686.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.0	63.4	
684.6	CARBONDALE	HERRIN	BLUE BAND	0.2	65.4	
684.4	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	65.6	
682.8	CARBONDALE		UNDERCLAY	0.8	67.2	
682.0	CARBONDALE		LIMESTONE	2.1	68.0	

MAPID: 05785865000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW

LONGITUDE: -90.125771

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 40.637197

DATE COLLECTED:

SURFACE ELEVATION (FT.): 751.0

LOGGED (FT.): 69.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT44

WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
751.0			UNKNOWN	65.9	0.0	
685.1	CARBONDALE	HERRIN	COAL	3.8	65.9	

MAPID: 05785866000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12341 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637199 DATE COLLECTED:

SURFACE ELEVATION (FT.): 751.8 LOGGED (FT.): 71.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT56 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FRM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
751.8			UNKNOWN	69.9	0.0	
681.9	CARBONDALE		CLAYSTONE	1.0	69.9	WHITE TOP
680.9	CARBONDALE	HERRIN	COAL	1.1	70.9	

MAPID: 05785867000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121116 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637106 DATE COLLECTED:

SURFACE ELEVATION (FT.): 752.0 LOGGED (FT.): 83.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT22 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.0			UNKNOWN	79.8	0.0	
672.2	CARBONDALE		CLAYSTONE	1.7	79.8	WHITE TOP
670.5	CARBONDALE	HERRIN	COAL	1.9	81.5	

MAPID: 05785870000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122228 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636294 DATE COLLECTED:

SURFACE ELEVATION (FT.): 754.7 LOGGED (FT.): 76.4 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT63 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
754.7			UNKNOWN	72.1	0.0	
682.6	CARBONDALE		CLAYSTONE	1.2	72.1	WHITE TOP
681.4	CARBONDALE	HERRIN	COAL	3.1	73.3	

MAPID: 05785871000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.124622 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636293 DATE COLLECTED:

SURFACE ELEVATION (FT.): 751.0 LOGGED (FT.): 66.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT72 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
751.0			UNKNOWN	63.4	0.0	
687.6	CARBONDALE	HERRIN	COAL	3.5	63.4	

MAPID: 05785872000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.125784 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635379 DATE COLLECTED:

SURFACE ELEVATION (FT.): 750.0 LOGGED (FT.): 69.7 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT59 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.0			UNKNOWN	66.4	0.0	
683.6	CARBONDALE	HERRIN	COAL	3.3	66.4	

MAPID: 05785873000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123441 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635397 DATE COLLECTED:

SURFACE ELEVATION (FT.): 752.1 LOGGED (FT.): 72.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT57 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.1			UNKNOWN	68.7	0.0	
683.4	CARBONDALE		CLAYSTONE	1.3	68.7	WHITE TOP
682.1	CARBONDALE	HERRIN	COAL	2.9	70.0	

MAPID: 05785874000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121105

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635395

DATE COLLECTED:

SURFACE ELEVATION (FT.): 752.6 LOGGED (FT.): 75.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT65

WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.6			UNKNOWN	72.1	0.0	
680.5	CARBONDALE	HERRIN	COAL	3.2	72.1	

MAPID: 05785877000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.122295

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634492

DATE COLLECTED:

SURFACE ELEVATION (FT.): 752.7 LOGGED (FT.): 78.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT64

WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.7			UNKNOWN	75.4	0.0	
677.3	CARBONDALE		CLAYSTONE	1.0	75.4	WHITE TOP
676.3	CARBONDALE	HERRIN	COAL	2.2	76.4	

MAPID: 05785878000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.124664

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634483

DATE COLLECTED:

SURFACE ELEVATION (FT.): 752.0 LOGGED (FT.): 72.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT73

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.0			UNKNOWN	69.2	0.0	
682.8	CARBONDALE	HERRIN	COAL	3.4	69.2	

MAPID: 05785879000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.125709 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633589 DATE COLLECTED:

SURFACE ELEVATION (FT.): 753.0 LOGGED (FT.): 70.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT45 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
753.0			UNKNOWN	66.2	0.0
686.8	CARBONDALE	HERRIN	COAL	4.3	66.2

MAPID: 05785880000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.123447 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633645 DATE COLLECTED:

SURFACE ELEVATION (FT.): 752.4 LOGGED (FT.): 78.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT58 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
752.4			UNKNOWN	74.9	0.0
677.5	CARBONDALE		CLAYSTONE	1.0	74.9
676.5	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.9	75.9
675.6	CARBONDALE	HERRIN	COAL	1.3	76.8

MAPID: 05785881000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 35 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.121154 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633604 DATE COLLECTED:

SURFACE ELEVATION (FT.): 749.6 LOGGED (FT.): 72.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT46 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
749.6			UNKNOWN	68.9	0.0
680.7	CARBONDALE	HERRIN	COAL	3.7	68.9

MAPID: 05784389000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102086

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.62979

DATE COLLECTED: 5 / 7 / 1937

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 63.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 59

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
746.0	PLEISTOCENE		CLAY	13.8	0.0
732.2	PLEISTOCENE		SANDY CLAY	10.1	13.8
722.2	PLEISTOCENE		SAND & GRAVEL	6.2	23.8
716.0	PLEISTOCENE		CLAY	2.5	30.0
713.5	CARBONDALE		SANDSTONE	5.1	32.5
708.4	CARBONDALE		GRAY SHALE	18.3	37.6
690.1	CARBONDALE		CLAYSTONE	3.0	55.9
687.2	CARBONDALE	HERRIN	COAL	2.4	58.8
684.7	CARBONDALE	HERRIN	SHALE	0.1	61.3
684.6	CARBONDALE	HERRIN	COAL	1.7	61.4 SOFT
682.9	CARBONDALE		UNDERCLAY	0.6	63.1

MAPID: 05784390000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.111457

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637056

DATE COLLECTED: 1 / 4 / 1946

SURFACE ELEVATION (FT.): 756.7 LOGGED (FT.): 78.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 158

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
756.7	PLEISTOCENE		SOIL	1.0	0.0
755.7	PLEISTOCENE		CLAY	21.3	1.0
734.4	MODESTO		GRAY SHALE	9.7	22.3
724.7	MODESTO		SLATY SHALE	2.5	32.0
722.2	CARBONDALE	DANVILLE	COAL W/ BLACK SHALE	2.0	34.5
720.2	CARBONDALE		UNDERCLAY	0.5	36.5
719.7	CARBONDALE		GRAY SHALE	9.7	37.0
710.0	CARBONDALE		RED SHALE	10.1	46.7
699.9	CARBONDALE		GRAY SANDSTONE	6.1	56.8
693.8	CARBONDALE		GRAY SHALE	10.9	62.9
682.9	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.5	73.8
680.4	CARBONDALE	HERRIN	BLUE BAND	0.2	76.3
680.2	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.4	76.5
678.8	CARBONDALE		UNDERCLAY	1.0	77.9

MAPID: 05784391000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.111534

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635478

DATE COLLECTED: 1 / 8 / 1946

SURFACE ELEVATION (FT.): 751.2 LOGGED (FT.): 101.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 160

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
751.2	PLEISTOCENE		SOIL	1.0	0.0	
750.2	PLEISTOCENE		CLAY	22.3	1.0	
727.9	PLEISTOCENE		SANDY CLAY	34.5	23.3	
693.4	PLEISTOCENE		CLAY	7.5	57.8	
685.9	CARBONDALE	HERRIN	COAL	1.0	65.3	SOFT; TOP ERODED
684.9	CARBONDALE		UNDERCLAY	2.0	66.3	
683.0	CARBONDALE		GRAY SHALE	33.0	68.2	

MAPID: 05784392000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.111537

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633425

DATE COLLECTED: 1 / 13 / 1946

SURFACE ELEVATION (FT.): 748.5 LOGGED (FT.): 70.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 162

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.5	PLEISTOCENE		SOIL	1.0	0.0	
747.5	PLEISTOCENE		CLAY	5.0	1.0	YELLOW
742.5	PLEISTOCENE		CLAY	14.3	6.0	GREEN
728.2	PLEISTOCENE		BOULDER	1.4	20.3	
726.8	CARBONDALE		GRAY SHALE	14.1	21.7	
712.7	CARBONDALE		RED SHALE	18.1	35.8	
694.6	CARBONDALE		GRAY SHALE	9.5	53.9	
685.1	CARBONDALE	ANNA	BLACK SHALE	0.6	63.4	
684.5	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	64.0	
683.0	CARBONDALE		SHALE/UNDERCLAY	4.8	65.5	

MAPID: 05784393000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.111467

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636162

DATE COLLECTED: 1 / 25 / 1946

SURFACE ELEVATION (FT.): 753.0 LOGGED (FT.): 67.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 219

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
753.0	PLEISTOCENE		SOIL	1.0	0.0	
752.0	PLEISTOCENE		CLAY	44.6	1.0	
707.4	PLEISTOCENE		CLAY	11.1	45.6	
696.3	PLEISTOCENE		BOULDER	3.3	56.7	SANDROCK
693.0	PLEISTOCENE		CLAY	1.4	60.0	
691.6	CARBONDALE		SHALE	1.0	61.4	
690.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.4	62.4	
689.2	CARBONDALE	HERRIN	SHALE	0.4	63.8	
688.8	CARBONDALE	HERRIN	COAL	1.7	64.2	
687.1	CARBONDALE		UNDERCLAY	2.0	65.9	

MAPID: 05784394000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10195 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636986 DATE COLLECTED: 2 / 16 / 1960

SURFACE ELEVATION (FT.): 753.9 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 382 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
753.9	PLEISTOCENE		SOIL	1.0	0.0	
752.9	PLEISTOCENE		CLAY	30.1	1.0	
722.8	MODESTO		SANDY SHALE	3.9	31.1	
718.9	MODESTO		DARK SHALE	3.1	35.0	
715.8	CARBONDALE	DANVILLE	COAL	1.4	38.1	SOFT
714.4	CARBONDALE		UNDERCLAY	1.5	39.5	
712.9	CARBONDALE		GRAY SHALE	6.6	41.0	
706.3	CARBONDALE		LIMESTONE	5.5	47.6	
700.8	CARBONDALE		CALCAREOUS SHALE	6.3	53.1	
694.5	CARBONDALE		LIMESTONE	0.4	59.4	
694.1	CARBONDALE		SANDY SHALE	10.3	59.8	
683.8	CARBONDALE		DARK SHALE	2.1	70.1	
681.7	CARBONDALE	BRERETON	LIMESTONE	0.7	72.2	
681.0	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.5	72.9	WHITE TOP
680.5	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.7	73.4	
678.8	CARBONDALE	HERRIN	BLUE BAND	0.2	75.1	
678.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	75.3	
677.1	CARBONDALE		UNDERCLAY	1.2	76.8	

MAPID: 05784395000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109023

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637019

DATE COLLECTED: 2 / 17 / 1960

SURFACE ELEVATION (FT.): 754.5 LOGGED (FT.): 76.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 383

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
754.5	PLEISTOCENE		SOIL	1.5	0.0	
753.0	PLEISTOCENE		CLAY	24.3	1.5	
728.7	PLEISTOCENE		SANDY CLAY	17.0	25.8	
711.7	CARBONDALE		SANDY SHALE	1.0	42.8	
710.7	CARBONDALE		LIMESTONE	1.8	43.8	
708.9	CARBONDALE		SHALE	0.6	45.6	
708.3	CARBONDALE		LIMESTONE	1.0	46.2	
707.3	CARBONDALE		CALCAREOUS SHALE	20.8	47.2	
686.5	CARBONDALE	BRERETON	LIMESTONE	2.2	68.0	
684.3	CARBONDALE		CLAYSTONE	0.6	70.2	WHITE TOP
683.7	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.2	70.8	WHITE TOP
682.5	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	0.6	72.0	
681.9	CARBONDALE	HERRIN	BLUE BAND	0.2	72.6	
681.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.7	72.8	
680.0	CARBONDALE		UNDERCLAY	1.5	74.5	

MAPID: 05784396000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109037

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63533

DATE COLLECTED: 12 / 19 / 1960

SURFACE ELEVATION (FT.): 751.3 LOGGED (FT.): 74.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 384

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
751.3	PLEISTOCENE		SOIL	1.0	0.0	
750.3	PLEISTOCENE		CLAY	24.8	1.0	YELLOW
725.5	PLEISTOCENE		CLAY	8.5	25.8	GRAY
717.0	PLEISTOCENE		SAND	2.6	34.3	
714.4	PLEISTOCENE		SANDY CLAY	38.0	36.9	

MAPID: 05784397000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106726

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635237

DATE COLLECTED: 2 / 19 / 1960

SURFACE ELEVATION (FT.): 750.8 LOGGED (FT.): 77.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 385

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.8	PLEISTOCENE		SOIL	1.5	0.0	
749.3	PLEISTOCENE		CLAY	16.7	1.5	
732.6	PLEISTOCENE		CLAY	7.6	18.2	& BOULDERS
725.0	PLEISTOCENE		CLAY	15.2	25.8	
709.8	CARBONDALE		SHALE	0.5	41.0	
709.3	CARBONDALE		LIMESTONE	0.8	41.5	
708.5	CARBONDALE		CALCAREOUS SHALE	20.3	42.3	
688.2	CARBONDALE		GRAY SHALE	9.0	62.6	
679.2	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.1	71.6	
677.1	CARBONDALE	HERRIN	BLUE BAND	0.2	73.7	
676.9	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	73.9	
675.3	CARBONDALE		UNDERCLAY	1.5	75.5	

MAPID: 05784398000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106829

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63341

DATE COLLECTED: 2 / 20 / 1960

SURFACE ELEVATION (FT.): 749.1 LOGGED (FT.): 72.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 386

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.1	PLEISTOCENE		SOIL	1.0	0.0	
748.1	PLEISTOCENE		CLAY	13.7	1.0	
734.4	PLEISTOCENE		SANDY CLAY	5.0	14.7	
729.4	PLEISTOCENE		SAND & GRAVEL	2.3	19.7	
727.1	PLEISTOCENE		CLAY	5.7	22.0	& BOULDERS
721.4	PLEISTOCENE		CLAY & GRAVEL	10.5	27.7	
710.9	PLEISTOCENE		BOULDER	0.6	38.2	
710.3	PLEISTOCENE		CLAY	1.7	38.8	
708.6	CARBONDALE		SANDSTONE	6.2	40.5	
702.4	CARBONDALE		SANDY SHALE	1.5	46.7	
700.9	CARBONDALE		LIMESTONE	0.2	48.2	
700.7	CARBONDALE		CALCAREOUS SHALE	2.9	48.4	
697.8	CARBONDALE		LIMESTONE	0.4	51.3	
697.4	CARBONDALE		GRAY SHALE	10.4	51.7	
687.0	CARBONDALE		DARK SHALE	1.2	62.1	
685.8	CARBONDALE	BRERETON	LIMESTONE	2.9	63.3	
682.9	CARBONDALE		CLAYSTONE	0.3	66.2	WHITE TOP
682.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.0	66.5	
680.6	CARBONDALE	HERRIN	BLUE BAND	0.2	68.5	
680.4	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	68.7	
678.8	CARBONDALE		UNDERCLAY	1.7	70.3	

MAPID: 05784399000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.109103

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633352

DATE COLLECTED: 2 / 22 / 1960

SURFACE ELEVATION (FT.): 748.9 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 387

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.9	PLEISTOCENE		SOIL	1.0	0.0	
747.9	PLEISTOCENE		CLAY	13.7	1.0	
734.2	PLEISTOCENE		SANDY CLAY	8.7	14.7	
725.5	PLEISTOCENE		SAND & GRAVEL	1.6	23.4	
723.9	PLEISTOCENE		BOULDER	0.4	25.0	
723.5	PLEISTOCENE		CLAY	5.9	25.4	& BOULDERS
717.6	PLEISTOCENE		BOULDER	2.4	31.3	
715.2	PLEISTOCENE		SANDY CLAY	21.4	33.7	
693.8	PLEISTOCENE		SANDY CLAY	14.9	55.1	

MAPID: 05784400000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107929

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633322

DATE COLLECTED: 2 / 22 / 1960

SURFACE ELEVATION (FT.): 749.3 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 388

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.3	PLEISTOCENE		SOIL	1.0	0.0	
748.3	PLEISTOCENE		CLAY	13.1	1.0	
735.2	CARBONDALE		SANDY SHALE	33.0	14.1	
702.2	CARBONDALE		CALCAREOUS SHALE	2.4	47.1	
699.8	CARBONDALE		SANDY SHALE	6.6	49.5	
693.2	CARBONDALE		GRAY SHALE	12.7	56.1	
680.5	CARBONDALE	ANNA	DARK SHALE	1.1	68.8	
679.4	CARBONDALE	HERRIN	COAL	2.5	69.9	
676.9	CARBONDALE	HERRIN	BLUE BAND	0.2	72.4	
676.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	72.6	
675.2	CARBONDALE		UNDERCLAY	0.9	74.1	

MAPID: 05784401000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107905

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63426

DATE COLLECTED: 2 / 23 / 1960

SURFACE ELEVATION (FT.): 749.3 LOGGED (FT.): 70.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 389

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.3	PLEISTOCENE		SOIL	1.0	0.0	
748.3	PLEISTOCENE		CLAY	13.7	1.0	
734.6	PLEISTOCENE		SANDY CLAY	5.0	14.7	
729.6	PLEISTOCENE		CLAY & GRAVEL	6.3	19.7	
723.3	PLEISTOCENE		BOULDER	5.1	26.0	
718.2	PLEISTOCENE		CLAY & GRAVEL	4.3	31.1	
713.9	PLEISTOCENE		BOULDER	0.7	35.4	
713.2	PLEISTOCENE		CLAY & GRAVEL	23.0	36.1	
690.2	PLEISTOCENE		CLAY	2.3	59.1	
687.9	CARBONDALE		DARK SHALE	0.3	61.4	SOFT
687.6	CARBONDALE	BRERETON	LIMESTONE	4.0	61.7	
683.6	CARBONDALE		CLAYSTONE	1.3	65.7	WHITE TOP
682.3	CARBONDALE	HERRIN	COAL	0.8	67.0	SOFT
681.5	CARBONDALE	HERRIN	BLUE BAND	0.2	67.8	
681.3	CARBONDALE	HERRIN	COAL	1.8	68.0	SOFT
679.5	CARBONDALE		UNDERCLAY	1.0	69.8	

MAPID: 05784402000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107867

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635284

DATE COLLECTED: 2 / 24 / 1960

SURFACE ELEVATION (FT.): 750.9 LOGGED (FT.): 79.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 390

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.9	PLEISTOCENE		SOIL	1.0	0.0	
749.9	PLEISTOCENE		CLAY	19.0	1.0	
730.9	PLEISTOCENE		CLAY	3.0	20.0	& BOULDERS
727.9	PLEISTOCENE		CLAY & GRAVEL	17.2	23.0	
710.7	PLEISTOCENE		BOULDER	1.2	40.2	
709.5	PLEISTOCENE		SANDY CLAY	33.0	41.4	
676.5	PLEISTOCENE		SAND & GRAVEL	5.0	74.4	& DRIFT COAL

MAPID: 05784403000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107864

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636167

DATE COLLECTED: 2 / 26 / 1960

SURFACE ELEVATION (FT.): 753.1 LOGGED (FT.): 76.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 391

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
753.1	PLEISTOCENE		SOIL	1.0	0.0	
752.1	PLEISTOCENE		CLAY	25.6	1.0	
726.5	PLEISTOCENE		SANDY CLAY	25.1	26.6	
701.4	CARBONDALE		SHALE & SANDSTONE	7.7	51.7	
693.7	CARBONDALE		GRAY SHALE	8.4	59.4	
685.3	CARBONDALE	ANNA	DARK SHALE	3.1	67.8	
682.2	CARBONDALE	ANNA	BLACK SHALE	0.4	70.9	
681.8	CARBONDALE	HERRIN	COAL	2.4	71.3	
679.4	CARBONDALE	HERRIN	BLUE BAND	0.2	73.7	
679.2	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.8	73.9	
677.4	CARBONDALE		UNDERCLAY	1.0	75.7	

MAPID: 05784404000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110146

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63338

DATE COLLECTED: 2 / 26 / 1960

SURFACE ELEVATION (FT.): 748.1 LOGGED (FT.): 79.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 392

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.1	PLEISTOCENE		SOIL	1.0	0.0	
747.1	PLEISTOCENE		CLAY	15.9	1.0	YELLOW
731.2	PLEISTOCENE		CLAY	8.0	16.9	GRAY
723.2	PLEISTOCENE		CLAY & GRAVEL	25.1	24.9	
698.1	PLEISTOCENE		SANDY CLAY	29.9	50.0	

MAPID: 05784405000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106636

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637001

DATE COLLECTED: 2 / 27 / 1960

SURFACE ELEVATION (FT.): 753.9 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 393

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
753.9	PLEISTOCENE		SOIL	1.0	0.0	
752.9	PLEISTOCENE		CLAY	23.6	1.0	
729.3	PLEISTOCENE		SANDY CLAY	26.0	24.6	GRAY
703.3	PLEISTOCENE		SANDY CLAY	33.7	50.6	GREEN
669.6	CARBONDALE	HERRIN	COAL	2.9	84.3	TOP ERODED
666.7	CARBONDALE		GRAY SHALE	2.8	87.2	

MAPID: 05784406000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107849 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636992 DATE COLLECTED: 2 / 29 / 1960

SURFACE ELEVATION (FT.): 754.6 LOGGED (FT.): 146.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 394 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
754.6	PLEISTOCENE		SOIL	1.0	0.0
753.6	PLEISTOCENE		CLAY	24.7	1.0
728.9	PLEISTOCENE		CLAY & GRAVEL	7.4	25.7
721.5	PLEISTOCENE		CLAY	5.0	33.1
716.5	CARBONDALE		GRAY SHALE	9.3	38.1
707.2	CARBONDALE		LIMESTONE	0.7	47.4
706.5	CARBONDALE		GRAY SHALE	18.2	48.1
688.3	CARBONDALE		DARK SHALE	5.2	66.3
683.1	CARBONDALE	HERRIN	COAL	2.3	71.5
680.8	CARBONDALE	HERRIN	BLUE BAND	0.2	73.8
680.6	CARBONDALE	HERRIN	COAL	1.6	74.0
679.0	CARBONDALE		UNDERCLAY	1.4	75.6
677.6	CARBONDALE		GRAY SHALE	2.3	77.0
675.3	CARBONDALE		LIMESTONE	4.6	79.3
670.7	CARBONDALE		GRAY SHALE	38.2	83.9
632.5	CARBONDALE		LIMESTONE	5.3	122.1
627.2	CARBONDALE		CALCAREOUS SHALE	8.2	127.4
619.0	CARBONDALE		DARK SHALE	2.5	135.6
616.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	138.1
616.1	CARBONDALE	TURNER MINE	DARK SHALE	1.0	138.5
615.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	139.5
613.4	CARBONDALE	SPRINGFIELD	COAL	4.0	141.2
609.4	CARBONDALE		UNDERCLAY	0.8	145.2

MAPID: 05784407000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106737 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636148 DATE COLLECTED: 3 / 2 / 1960

SURFACE ELEVATION (FT.): 753.0 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 395 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
753.0	PLEISTOCENE		SOIL	1.0	0.0	
752.0	PLEISTOCENE		CLAY	29.2	1.0	
722.8	PLEISTOCENE		SANDY CLAY	36.0	30.2	
686.8	PLEISTOCENE		SANDY CLAY	9.1	66.2	
677.7	PLEISTOCENE		CLAY	4.7	75.3	

MAPID: 05784408000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104343 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635244 DATE COLLECTED: 2 / 3 / 1960

SURFACE ELEVATION (FT.): 751.9 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 396 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
751.9	PLEISTOCENE		SOIL	1.0	0.0	
750.9	PLEISTOCENE		CLAY	21.8	1.0	YELLOW
729.1	PLEISTOCENE		CLAY	3.0	22.8	GRAY
726.1	MODESTO		GRAY SHALE	3.9	25.8	
722.2	MODESTO		DARK SHALE	1.1	29.7	
721.1	CARBONDALE	DANVILLE	COAL	1.3	30.8	
719.8	CARBONDALE		UNDERCLAY	0.9	32.1	
718.9	CARBONDALE		GRAY SHALE	8.1	33.0	
710.8	CARBONDALE		LIMESTONE	4.6	41.1	
706.2	CARBONDALE		CALCAREOUS SHALE	18.1	45.7	
688.1	CARBONDALE		DARK SHALE	3.9	63.8	
684.2	CARBONDALE	BRERETON	LIMESTONE	1.4	67.7	
682.8	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.5	69.1	WHITE TOP
682.3	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.0	69.6	
680.3	CARBONDALE	HERRIN	BLUE BAND	0.2	71.6	
680.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	71.8	
678.5	CARBONDALE		UNDERCLAY	1.6	73.4	

MAPID: 05784409000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104432

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63339

DATE COLLECTED: 3 / 8 / 1960

SURFACE ELEVATION (FT.): 748.3 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 397

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.3	PLEISTOCENE		SOIL	1.0	0.0	
747.3	PLEISTOCENE		CLAY	13.8	1.0	
733.5	PLEISTOCENE		CLAY	16.2	14.8	& BOULDERS
717.3	PLEISTOCENE		CLAY & GRAVEL	14.2	31.0	
703.1	PLEISTOCENE		SANDY CLAY	34.8	45.2	

MAPID: 05784410000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104295

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634312

DATE COLLECTED: 3 / 8 / 1960

SURFACE ELEVATION (FT.): 749.4 LOGGED (FT.): 72.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 398

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.4	PLEISTOCENE		SOIL	1.0	0.0	
748.4	PLEISTOCENE		CLAY	12.7	1.0	
735.7	PLEISTOCENE		SANDY CLAY	6.0	13.7	
729.7	PLEISTOCENE		BOULDER	2.5	19.7	
727.2	PLEISTOCENE		CLAY & GRAVEL	17.8	22.2	
709.4	PLEISTOCENE		SANDY CLAY	8.7	40.0	
700.7	CARBONDALE		SHALE & SANDSTONE	11.0	48.7	
689.7	CARBONDALE		GRAY SHALE	2.4	59.7	
687.3	CARBONDALE		DARK SHALE	1.6	62.1	
685.7	CARBONDALE	BRERETON	LIMESTONE	3.0	63.7	
682.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.4	66.7	
680.3	CARBONDALE	HERRIN	BLUE BAND	0.2	69.1	
680.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	69.3	
678.5	CARBONDALE		UNDERCLAY	1.1	70.9	

MAPID: 05784411000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104235

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636969

DATE COLLECTED: 3 / 19 / 1960

SURFACE ELEVATION (FT.): 755.6 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 405

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
755.6	PLEISTOCENE		SOIL	1.0	0.0	
754.6	PLEISTOCENE		CLAY & GRAVEL	26.4	1.0	
728.2	MODESTO		GRAY SHALE	7.6	27.4	
720.6	MODESTO		DARK SHALE	1.8	35.0	
718.8	CARBONDALE	DANVILLE	COAL	1.1	36.8	
717.7	CARBONDALE		UNDERCLAY	1.1	37.9	
716.6	CARBONDALE		GRAY SHALE	7.1	39.0	
709.5	CARBONDALE		LIMESTONE	3.3	46.1	
706.2	CARBONDALE		GRAY SANDSTONE	11.4	49.4	
694.8	CARBONDALE		SHALE & SANDSTONE	5.7	60.8	
689.1	CARBONDALE		SANDSTONE	1.0	66.5	
688.1	CARBONDALE		GRAY SHALE	6.5	67.5	
681.6	CARBONDALE	ANNA	DARK SHALE	1.3	74.0	
680.3	CARBONDALE		CLAYSTONE	0.5	75.3	WHITE TOP
679.8	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	75.8	
678.2	CARBONDALE	HERRIN	BLUE BAND	0.2	77.4	
678.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.7	77.6	
676.3	CARBONDALE		UNDERCLAY	0.7	79.3	

MAPID: 05784412000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105332

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636983

DATE COLLECTED: 3 / 21 / 1960

SURFACE ELEVATION (FT.): 755.1 LOGGED (FT.): 82.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 406

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
755.1	PLEISTOCENE		SOIL	1.0	0.0	
754.1	PLEISTOCENE		CLAY	21.3	1.0	
732.8	MODESTO		SANDSTONE	5.0	22.3	BROKEN SOFT
727.8	MODESTO		SANDY SHALE	8.1	27.3	
719.7	MODESTO		DARK SHALE	1.0	35.4	
718.7	CARBONDALE	DANVILLE	COAL	1.2	36.4	VERY SOFT
717.5	CARBONDALE		UNDERCLAY	1.4	37.6	
716.1	CARBONDALE		GRAY SHALE	8.7	39.0	
707.4	CARBONDALE		LIMESTONE	1.6	47.7	
705.8	CARBONDALE		GRAY SANDSTONE	8.7	49.3	
697.1	CARBONDALE		SHALE & SANDSTONE	7.3	58.0	
689.8	CARBONDALE		GRAY SHALE	5.6	65.3	
684.2	CARBONDALE		DARK SHALE	4.2	70.9	
680.0	CARBONDALE	ANNA	BLACK SHALE	1.5	75.1	
678.5	CARBONDALE	HERRIN	COAL	2.4	76.6	
676.1	CARBONDALE	HERRIN	BLUE BAND	0.2	79.0	
675.9	CARBONDALE	HERRIN	COAL	1.7	79.2	
674.2	CARBONDALE		UNDERCLAY	1.1	80.9	

MAPID: 05784413000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105342 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636075 DATE COLLECTED: 3 / 22 / 1960

SURFACE ELEVATION (FT.): 753.8 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 407 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
753.8	PLEISTOCENE		SOIL	1.0	0.0	
752.8	PLEISTOCENE		CLAY	21.3	1.0	YELLOW
731.5	PLEISTOCENE		CLAY	5.5	22.3	GRAY
726.0	MODESTO		GRAY SHALE	4.4	27.8	
721.6	MODESTO		DARK SHALE	1.0	32.2	
720.6	CARBONDALE	DANVILLE	COAL	1.2	33.2	SOFT
719.4	CARBONDALE		UNDERCLAY	1.6	34.4	
717.8	CARBONDALE		GRAY SHALE	8.9	36.0	
708.9	CARBONDALE		LIMESTONE	1.4	44.9	
707.5	CARBONDALE		SHALE	0.5	46.3	
707.0	CARBONDALE		LIMESTONE	1.4	46.8	
705.6	CARBONDALE		GRAY SANDSTONE	10.1	48.2	
695.5	CARBONDALE		GRAY SHALE	10.4	58.3	
685.1	CARBONDALE		DARK SHALE	5.4	68.7	
679.7	CARBONDALE	HERRIN	COAL	2.4	74.1	
677.3	CARBONDALE	HERRIN	BLUE BAND	0.2	76.5	
677.1	CARBONDALE	HERRIN	COAL	1.7	76.7	
675.4	CARBONDALE		UNDERCLAY	1.6	78.4	

MAPID: 05784414000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105562 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633378 DATE COLLECTED: 3 / 22 / 1960

SURFACE ELEVATION (FT.): 749.6 LOGGED (FT.): 72.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 408 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.6	PLEISTOCENE		SOIL	1.0	0.0	
748.6	PLEISTOCENE		CLAY	15.8	1.0	
732.8	PLEISTOCENE		CLAY & GRAVEL	19.8	16.8	
713.0	PLEISTOCENE		CLAY	13.2	36.6	
699.8	PLEISTOCENE		SANDY CLAY	15.4	49.8	
684.4	PLEISTOCENE		BOULDER	1.0	65.2	
683.4	CARBONDALE		GRAY SHALE	1.6	66.2	SOFT
681.8	CARBONDALE	HERRIN	COAL	2.3	67.8	SOFT
679.5	CARBONDALE	HERRIN	BLUE BAND	0.2	70.1	
679.3	CARBONDALE	HERRIN	COAL	1.5	70.3	SOFT
677.8	CARBONDALE		UNDERCLAY	1.0	71.8	

MAPID: 05784415000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105389

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635167

DATE COLLECTED: 3 / 23 / 1960

SURFACE ELEVATION (FT.): 751.2 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 409

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
751.2	PLEISTOCENE		SOIL	1.0	0.0	
750.2	PLEISTOCENE		CLAY	22.5	1.0	YELLOW
727.7	PLEISTOCENE		CLAY	7.7	23.5	GRAY
720.0	CARBONDALE	DANVILLE	COAL	1.2	31.2	SOFT BROKENTOP ERODED
718.8	CARBONDALE		UNDERCLAY	1.6	32.4	
717.2	CARBONDALE		GRAY SHALE	8.2	34.0	
709.0	CARBONDALE		LIMESTONE	2.6	42.2	
706.4	CARBONDALE		CALCAREOUS SHALE	7.4	44.8	
699.0	CARBONDALE		LIMESTONE	6.1	52.2	
692.9	CARBONDALE		GRAY SHALE	8.0	58.3	
684.9	CARBONDALE		DARK SHALE	6.0	66.3	
678.9	CARBONDALE	HERRIN	COAL	2.2	72.3	
676.7	CARBONDALE	HERRIN	BLUE BAND	0.2	74.5	
676.5	CARBONDALE	HERRIN	COAL	1.6	74.7	
674.9	CARBONDALE		UNDERCLAY	1.7	76.3	
673.2	CARBONDALE		GRAY SHALE	2.0	78.0	

MAPID: 05784416000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105449

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634204

DATE COLLECTED: 3 / 24 / 1960

SURFACE ELEVATION (FT.): 750.4 LOGGED (FT.): 76.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 410

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.4	PLEISTOCENE		SOIL	1.0	0.0	
749.4	PLEISTOCENE		CLAY	22.4	1.0	
727.0	PLEISTOCENE		CLAY & GRAVEL	19.2	23.4	
707.8	CARBONDALE		GRAY SHALE	3.0	42.6	
704.8	CARBONDALE		LIMESTONE	0.5	45.6	
704.3	CARBONDALE		CALCAREOUS SHALE	2.5	46.1	
701.8	CARBONDALE		LIMESTONE	2.7	48.6	
699.1	CARBONDALE		CALCAREOUS SHALE	5.8	51.3	
693.3	CARBONDALE		LIMESTONE	0.7	57.1	
692.6	CARBONDALE		SHALE & SANDSTONE	10.0	57.8	
682.6	CARBONDALE	ANNA	DARK SHALE	2.7	67.8	
679.9	CARBONDALE		CLAYSTONE	0.3	70.5	WHITE TOP
679.6	CARBONDALE	HERRIN	COAL	2.1	70.8	
677.5	CARBONDALE	HERRIN	BLUE BAND	0.2	72.9	
677.3	CARBONDALE	HERRIN	COAL	1.6	73.1	
675.7	CARBONDALE		UNDERCLAY	1.3	74.7	

MAPID: 05784417000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103237

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633376

DATE COLLECTED: 3 / 25 / 1960

SURFACE ELEVATION (FT.): 748.2 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 411

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.2	PLEISTOCENE		SOIL	1.0	0.0	
747.2	PLEISTOCENE		CLAY	13.8	1.0	
733.4	PLEISTOCENE		CLAY & GRAVEL	35.0	14.8	
698.4	PLEISTOCENE		SANDY CLAY	30.2	49.8	

MAPID: 05784418000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101967 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.635234 DATE COLLECTED: 3 / 28 / 1960

SURFACE ELEVATION (FT.): 751.7 LOGGED (FT.): 89.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 413 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
751.7	PLEISTOCENE		SOIL	1.0	0.0	
750.7	PLEISTOCENE		CLAY	14.1	1.0	YELLOW
736.6	PLEISTOCENE		CLAY	29.9	15.1	GRAY
706.7	PLEISTOCENE		SANDY CLAY	44.1	45.0	

MAPID: 05784419000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101938 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636087 DATE COLLECTED: 3 / 28 / 1960

SURFACE ELEVATION (FT.): 753.0 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 414 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
753.0	PLEISTOCENE		SOIL	1.0	0.0	
752.0	PLEISTOCENE		CLAY	16.4	1.0	
735.6	PLEISTOCENE		CLAY & GRAVEL	19.8	17.4	
715.8	CARBONDALE		GRAY SHALE	8.6	37.2	
707.2	CARBONDALE		LIMESTONE	2.1	45.8	
705.1	CARBONDALE		CALCAREOUS SHALE	4.5	47.9	
700.6	CARBONDALE		GRAY SHALE	18.3	52.4	
682.3	CARBONDALE		LIMESTONE	0.2	70.7	
682.1	CARBONDALE		GRAY SHALE	2.6	70.9	
679.5	CARBONDALE	BRERETON	LIMESTONE	0.3	73.5	
679.2	CARBONDALE		CLAYSTONE	2.4	73.8	WHITE TOP
676.8	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	0.5	76.2	
676.3	CARBONDALE	HERRIN	BLUE BAND	0.2	76.7	
676.1	CARBONDALE	HERRIN	COAL	1.5	76.9	
674.6	CARBONDALE		UNDERCLAY	1.6	78.4	

MAPID: 05784420000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10205 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63144 DATE COLLECTED: 11 / 1 / 1961

SURFACE ELEVATION (FT.): 745.3 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 476 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.3	PLEISTOCENE		SOIL	1.0	0.0	
744.3	PLEISTOCENE		SANDY CLAY	17.6	1.0	YELLOW
726.7	PLEISTOCENE		SANDY CLAY	13.6	18.6	GRAY
713.1	CARBONDALE		SANDSTONE	14.6	32.2	
698.5	CARBONDALE		SHALE & SANDSTONE	11.4	46.8	
687.1	CARBONDALE	ANNA	BLACK SHALE	1.2	58.2	
685.9	CARBONDALE	HERRIN	COAL	2.1	59.4	
683.8	CARBONDALE	HERRIN	BLUE BAND	0.2	61.5	
683.6	CARBONDALE	HERRIN	COAL	1.6	61.7	
682.0	CARBONDALE		UNDERCLAY	1.7	63.3	

MAPID: 05784421000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102112 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.628121 DATE COLLECTED: 11 / 1 / 1961

SURFACE ELEVATION (FT.): 744.7 LOGGED (FT.): 73.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 477 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.7	PLEISTOCENE		SOIL	1.0	0.0	
743.7	PLEISTOCENE		CLAY	13.2	1.0	
730.5	PLEISTOCENE		CLAY & GRAVEL	26.1	14.2	
704.4	CARBONDALE		SANDSTONE	12.3	40.3	
692.1	CARBONDALE		SHALE & SANDSTONE	8.4	52.6	
683.7	CARBONDALE		LIMESTONE	0.3	61.0	
683.4	CARBONDALE		GRAY SHALE	6.1	61.3	
677.3	CARBONDALE	ANNA	DARK SHALE	0.3	67.4	
677.0	CARBONDALE	ANNA	BLACK SHALE	0.3	67.7	
676.7	CARBONDALE	HERRIN	COAL	1.9	68.0	
674.8	CARBONDALE	HERRIN	BLUE BAND	0.2	69.9	
674.6	CARBONDALE	HERRIN	COAL	1.7	70.1	
672.9	CARBONDALE		UNDERCLAY	1.2	71.8	

MAPID: 05784422000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104614

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626025

DATE COLLECTED: 11 / 2 / 1961

SURFACE ELEVATION (FT.): 744.3 LOGGED (FT.): 61.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 478

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
744.3	PLEISTOCENE		SOIL	1.0	0.0
743.3	PLEISTOCENE		CLAY	21.0	1.0
722.3	PLEISTOCENE		CLAY & GRAVEL	11.0	22.0
711.3	CARBONDALE		SANDSTONE	7.5	33.0
703.8	CARBONDALE		SHALE & SANDSTONE	14.1	40.5
689.7	CARBONDALE	BRERETON	LIMESTONE	0.8	54.6
688.9	CARBONDALE	ANNA	DARK SHALE	0.7	55.4
688.2	CARBONDALE	HERRIN	COAL	2.3	56.1
685.9	CARBONDALE	HERRIN	BLUE BAND	0.2	58.4
685.7	CARBONDALE	HERRIN	COAL	1.6	58.6
684.1	CARBONDALE		UNDERCLAY	1.0	60.2

MAPID: 05784423000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106766

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626163

DATE COLLECTED: 11 / 2 / 1961

SURFACE ELEVATION (FT.): 740.3 LOGGED (FT.): 58.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 479

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
740.3	PLEISTOCENE		SOIL	1.0	0.0
739.3	PLEISTOCENE		CLAY	14.3	1.0
725.0	PLEISTOCENE		SANDY CLAY	12.0	15.3
713.0	CARBONDALE		SANDY SHALE	7.5	27.3
705.5	CARBONDALE		SANDSTONE	4.0	34.8
701.5	CARBONDALE		CALCAREOUS SHALE	13.5	38.8
688.0	CARBONDALE	ANNA	DARK SHALE	0.2	52.3
687.8	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.3	52.5
687.5	CARBONDALE	HERRIN	COAL	1.6	52.8
685.9	CARBONDALE	HERRIN	BLUE BAND	0.2	54.4
685.7	CARBONDALE	HERRIN	COAL	1.8	54.6
683.9	CARBONDALE		UNDERCLAY	1.6	56.4

MAPID: 05784424000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106761

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.627703

DATE COLLECTED: 11 / 2 / 1961

SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 62.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 480

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
480.0	PLEISTOCENE		SOIL	1.0	0.0	
479.0	PLEISTOCENE		CLAY	14.6	1.0	
464.4	PLEISTOCENE		CLAY & GRAVEL	21.1	15.6	
443.3	CARBONDALE		SANDY SHALE	2.6	36.7	
440.7	CARBONDALE		SANDSTONE	0.5	39.3	
440.2	CARBONDALE		SHALE & SANDSTONE	14.8	39.8	
425.4	CARBONDALE		DARK SHALE	0.6	54.6	
424.8	CARBONDALE	BRERETON	LIMESTONE	2.6	55.2	
422.2	CARBONDALE		CLAYSTONE	0.2	57.8	WHITE TOP
422.0	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.9	58.0	WHITE TOP
420.1	CARBONDALE	HERRIN	BLUE BAND	0.2	59.9	
419.9	CARBONDALE	HERRIN	COAL	1.6	60.1	
418.3	CARBONDALE		UNDERCLAY	1.0	61.7	

MAPID: 05784425000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106734

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629554

DATE COLLECTED: 11 / 3 / 1961

SURFACE ELEVATION (FT.): 746.2 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 481

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.2	PLEISTOCENE		SOIL	1.0	0.0	
745.2	PLEISTOCENE		CLAY	12.9	1.0	
732.3	PLEISTOCENE		CLAY & GRAVEL	6.6	13.9	
725.7	PLEISTOCENE		BOULDER	1.4	20.5	
724.3	PLEISTOCENE		CLAY & GRAVEL	38.0	21.9	
686.3	PLEISTOCENE		CLAY, SAND & GRAVEL	20.1	59.9	

MAPID: 05784426000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106725

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.631375

DATE COLLECTED: 10 / 3 / 1961

SURFACE ELEVATION (FT.): 747.8 LOGGED (FT.): 89.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 482

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
747.8	PLEISTOCENE		SOIL	1.0	0.0
746.8	PLEISTOCENE		CLAY	11.6	1.0
735.2	PLEISTOCENE		CLAY & GRAVEL	77.2	12.6

MAPID: 05784427000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106714

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.632194

DATE COLLECTED: 10 / 4 / 1961

SURFACE ELEVATION (FT.): 745.1 LOGGED (FT.): 80.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 483

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
745.1	PLEISTOCENE		SOIL	1.0	0.0
744.1	PLEISTOCENE		CLAY	16.9	1.0
727.2	PLEISTOCENE		SANDY CLAY	40.7	17.9
686.5	PLEISTOCENE		CLAY, SAND & GRAVEL	3.0	58.6
683.5	PLEISTOCENE		SANDY CLAY	16.2	61.6
667.3			GRAY SHALE	2.3	77.8

MAPID: 05784428000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106798

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.628624

DATE COLLECTED: 11 / 4 / 1961

SURFACE ELEVATION (FT.): 747.1 LOGGED (FT.): 80.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 484

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
747.1	PLEISTOCENE		SOIL	1.0	0.0
746.1	PLEISTOCENE		CLAY	14.8	1.0
731.3	PLEISTOCENE		CLAY & GRAVEL	56.5	15.8
674.8	PLEISTOCENE		CLAY	1.3	72.3 & BOULDERS
673.5	PLEISTOCENE		CLAY & GRAVEL	6.6	73.6

MAPID: 05784429000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104446

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.627574

DATE COLLECTED: 11 / 4 / 1961

SURFACE ELEVATION (FT.): 741.7 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 485

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.7	PLEISTOCENE		SOIL	1.0	0.0	
740.7	PLEISTOCENE		CLAY	10.3	1.0	
730.4	PLEISTOCENE		CLAY & GRAVEL	8.7	11.3	
721.7	PLEISTOCENE		CLAY, SAND & GRAVEL	29.8	20.0	
691.9	PLEISTOCENE		CLAY & GRAVEL	7.2	49.8	
684.7	PLEISTOCENE		UNKNOWN	1.8	57.0	TRACES OF COAL
682.9	PLEISTOCENE		CLAY & GRAVEL	11.2	58.8	

MAPID: 05784430000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104308

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.632107

DATE COLLECTED: 11 / 6 / 1961

SURFACE ELEVATION (FT.): 747.6 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 486

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.6	PLEISTOCENE		SOIL	1.0	0.0	
746.6	PLEISTOCENE		CLAY	13.2	1.0	
733.4	PLEISTOCENE		SANDY CLAY	6.1	14.2	
727.3	PLEISTOCENE		BOULDER	0.5	20.3	
726.8	PLEISTOCENE		CLAY & GRAVEL	69.2	20.8	

MAPID: 05784431000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101996

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.632351

DATE COLLECTED: 11 / 6 / 1961

SURFACE ELEVATION (FT.): 745.3 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 487

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.3	PLEISTOCENE		SOIL	1.0	0.0	
744.3	PLEISTOCENE		CLAY	13.8	1.0	
730.5	PLEISTOCENE		CLAY & GRAVEL	25.2	14.8	
705.3	PLEISTOCENE		SANDY CLAY	19.8	40.0	GREEN
685.5	PLEISTOCENE		SANDY CLAY	20.2	59.8	GRAY

MAPID: 05784432000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103345

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629632

DATE COLLECTED: 11 / 7 / 1961

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 488

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0	PLEISTOCENE		SOIL	1.0	0.0	
746.0	PLEISTOCENE		CLAY	12.4	1.0	
733.6	PLEISTOCENE		CLAY & GRAVEL	23.0	13.4	
710.6	PLEISTOCENE		SAND & GRAVEL	3.4	36.4	
707.2	PLEISTOCENE		SANDY CLAY	8.3	39.8	
698.9	PLEISTOCENE		BOULDER	0.8	48.1	
698.1	PLEISTOCENE		CLAY	2.9	48.9	
695.2	CARBONDALE		GRAY SHALE	1.2	51.8	
694.0	CARBONDALE		LIMESTONE	0.3	53.0	
693.7	CARBONDALE		GRAY SHALE	8.4	53.3	
685.3	CARBONDALE		DARK SHALE	2.0	61.7	
683.3	CARBONDALE	BRERETON	LIMESTONE	0.6	63.7	
682.7	CARBONDALE	HERRIN	COAL	2.1	64.3	
680.6	CARBONDALE	HERRIN	BLUE BAND	0.2	66.4	
680.4	CARBONDALE	HERRIN	COAL	1.5	66.6	
678.9	CARBONDALE		UNDERCLAY	1.9	68.1	

MAPID: 05784433000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103321

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.631422

DATE COLLECTED: 11 / 7 / 1961

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 489

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
747.0	PLEISTOCENE		SOIL	1.0	0.0
746.0	PLEISTOCENE		CLAY	12.4	1.0
733.6	PLEISTOCENE		CLAY & GRAVEL	12.5	13.4
721.1	PLEISTOCENE		BOULDER	1.8	25.9
719.3	PLEISTOCENE		CLAY & GRAVEL	52.3	27.7

MAPID: 05784434000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103327

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.630509

DATE COLLECTED: 11 / 7 / 1961

SURFACE ELEVATION (FT.): 748.3 LOGGED (FT.): 71.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 490

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
748.3	PLEISTOCENE		SOIL	1.0	0.0
747.3	PLEISTOCENE		CLAY	12.7	1.0
734.6	PLEISTOCENE		CLAY	7.5	13.7 & BOULDERS
727.1	PLEISTOCENE		CLAY & GRAVEL	12.1	21.2
715.0	PLEISTOCENE		BOULDER	1.0	33.3
714.0	PLEISTOCENE		SAND & GRAVEL	5.7	34.3
708.3	PLEISTOCENE		CLAY, SAND & GRAVEL	17.2	40.0
691.1	CARBONDALE		SANDY SHALE	7.1	57.2
684.0	CARBONDALE	ANNA	BLACK SHALE	1.3	64.3
682.7	CARBONDALE	HERRIN	COAL	2.0	65.6
680.7	CARBONDALE	HERRIN	BLUE BAND	0.2	67.6
680.5	CARBONDALE	HERRIN	COAL	1.8	67.8
678.7	CARBONDALE		UNDERCLAY	1.4	69.6

MAPID: 05784435000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104338

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63051

DATE COLLECTED: 11 / 8 / 1961

SURFACE ELEVATION (FT.): 745.9 LOGGED (FT.): 78.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 491

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.9	PLEISTOCENE		SOIL	1.0	0.0	
744.9	PLEISTOCENE		CLAY	12.8	1.0	
732.1	PLEISTOCENE		CLAY & GRAVEL	13.4	13.8	
718.7	PLEISTOCENE		CLAY	2.0	27.2	& BOULDERS
716.7	PLEISTOCENE		CLAY & GRAVEL	13.1	29.2	
703.6	PLEISTOCENE		CLAY	2.0	42.3	& BOULDERS
701.6	PLEISTOCENE		CLAY & GRAVEL	11.8	44.3	
689.8	PLEISTOCENE		SANDY CLAY	22.6	56.1	

MAPID: 05784436000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104474

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629491

DATE COLLECTED: 11 / 9 / 1961

SURFACE ELEVATION (FT.): 745.9 LOGGED (FT.): 69.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 492

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.9	PLEISTOCENE		SOIL	1.0	0.0	
744.9	PLEISTOCENE		CLAY	12.9	1.0	
732.0	PLEISTOCENE		CLAY & GRAVEL	17.0	13.9	
715.0	PLEISTOCENE		CLAY	8.2	30.9	& BOULDERS
706.8	PLEISTOCENE		BOULDER	3.8	39.1	
703.0	PLEISTOCENE		SANDY CLAY	9.9	42.9	
693.1	CARBONDALE		SANDSTONE	1.3	52.8	
691.8	CARBONDALE		GRAY SHALE	5.8	54.1	
686.0	CARBONDALE	ANNA	DARK SHALE	2.6	59.9	
683.4	CARBONDALE	ANNA	BLACK SHALE	1.5	62.5	
681.9	CARBONDALE	HERRIN	COAL	2.3	64.0	
679.6	CARBONDALE	HERRIN	BLUE BAND	0.2	66.3	
679.4	CARBONDALE	HERRIN	COAL	1.7	66.5	
677.7	CARBONDALE		UNDERCLAY	1.7	68.2	

MAPID: 05784437000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10568 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629523 DATE COLLECTED: 11 / 9 / 1961

SURFACE ELEVATION (FT.): 746.7 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 493 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
746.7	PLEISTOCENE		SOIL	1.0	0.0
745.7	PLEISTOCENE		CLAY	13.9	1.0
731.8	PLEISTOCENE		CLAY & GRAVEL	20.1	14.9
711.7	PLEISTOCENE		SAND & GRAVEL	10.9	35.0
700.8	PLEISTOCENE		CLAY & GRAVEL	9.0	45.9
691.8	PLEISTOCENE		SANDY CLAY	25.1	54.9

MAPID: 05784438000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104523 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.628462 DATE COLLECTED: 11 / 9 / 1961

SURFACE ELEVATION (FT.): 747.1 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 494 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
747.1	PLEISTOCENE		SOIL	1.0	0.0
746.1	PLEISTOCENE		CLAY	12.1	1.0
734.0	PLEISTOCENE		CLAY & GRAVEL	24.3	13.1
709.7	CARBONDALE		GRAY SANDSTONE	4.9	37.4
704.8	CARBONDALE		SHALE & SANDSTONE	22.6	42.3
682.2	CARBONDALE	ANNA	DARK SHALE	0.3	64.9
681.9	CARBONDALE	HERRIN	COAL	2.1	65.2
679.8	CARBONDALE	HERRIN	BLUE BAND	0.2	67.3
679.6	CARBONDALE	HERRIN	COAL	1.6	67.5
678.0	CARBONDALE		UNDERCLAY	0.9	69.1

MAPID: 05784439000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105661

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.628605

DATE COLLECTED: 11 / 10 / 1961

SURFACE ELEVATION (FT.): 746.3 LOGGED (FT.): 78.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 495

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
746.3	PLEISTOCENE		SOIL	1.0	0.0
745.3	PLEISTOCENE		CLAY	12.8	1.0
732.5	PLEISTOCENE		SANDY CLAY	16.2	13.8
716.3	PLEISTOCENE		CLAY, SAND & GRAVEL	15.3	30.0
701.0	PLEISTOCENE		CLAY	19.7	45.3
681.3	PLEISTOCENE		SANDY CLAY	12.8	65.0
668.5			GRAY SHALE	1.0	77.8

MAPID: 05784440000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105697

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.627727

DATE COLLECTED: 11 / 10 / 1961

SURFACE ELEVATION (FT.): 746.5 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 496

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
746.5	PLEISTOCENE		SOIL	1.0	0.0
745.5	PLEISTOCENE		CLAY	12.3	1.0
733.2	PLEISTOCENE		SANDY CLAY	18.5	13.3
714.7	PLEISTOCENE		CLAY & GRAVEL	14.0	31.8
700.7	PLEISTOCENE		SANDY CLAY	34.2	45.8

MAPID: 05784451000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102085

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633346

DATE COLLECTED: 3 / 26 / 1960

SURFACE ELEVATION (FT.): 749.0 LOGGED (FT.): 143.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 412

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.0	PLEISTOCENE		SOIL	1.0	0.0	
748.0	PLEISTOCENE		CLAY	16.6	1.0	YELLOW
731.4	PLEISTOCENE		CLAY	9.2	17.6	GRAY
722.2	PLEISTOCENE		BOULDER	1.5	26.8	
720.7	PLEISTOCENE		CLAY	9.7	28.3	
711.0	PLEISTOCENE		SANDY CLAY	42.0	38.0	
669.0	PLEISTOCENE		CLAY	20.0	80.0	
649.0	PLEISTOCENE		SANDY CLAY	30.9	100.0	
618.1	CARBONDALE		LIMESTONE	0.4	130.9	
617.7	CARBONDALE		SANDY SHALE	1.2	131.3	
616.5	CARBONDALE		DARK SHALE	2.3	132.5	
614.2	CARBONDALE	ST. DAVID	LIMESTONE	0.3	134.8	
613.9	CARBONDALE	TURNER MINE	DARK SHALE	1.5	135.1	
612.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	136.6	
611.4	CARBONDALE	SPRINGFIELD	COAL	4.3	137.6	
607.1	CARBONDALE		UNDERCLAY	1.1	141.9	

MAPID: 05784457000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10573 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626086 DATE COLLECTED: 11 / 10 / 1961

SURFACE ELEVATION (FT.): 739.4 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 497 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
739.4	PLEISTOCENE		SOIL	1.0	0.0
738.4	PLEISTOCENE		CLAY	10.6	1.0
727.8	PLEISTOCENE		CLAY & GRAVEL	14.2	11.6
713.6	CARBONDALE		GRAY SANDSTONE	4.2	25.8
709.4	CARBONDALE		SHALE & SANDSTONE	20.7	30.0
688.7	CARBONDALE	ANNA	DARK SHALE	1.1	50.7
687.6	CARBONDALE	HERRIN	COAL	2.1	51.8
685.5	CARBONDALE	HERRIN	BLUE BAND	0.2	53.9
685.3	CARBONDALE	HERRIN	COAL	1.7	54.1
683.6	CARBONDALE		UNDERCLAY	1.3	55.8
682.3	CARBONDALE		GRAY SHALE	2.9	57.1

MAPID: 05784949000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101872 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638062 DATE COLLECTED: 7 / 18 / 1975

SURFACE ELEVATION (FT.): 753.9 LOGGED (FT.): 147.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 22992 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
753.9	PLEISTOCENE		CLAY & GRAVEL	45.5	0.0	YELLOW
708.4	PLEISTOCENE		CLAY & GRAVEL	5.5	45.5	GRAY
702.9	CARBONDALE		LIMESTONE	3.6	51.0	
699.3	CARBONDALE		SANDSTONE	11.2	54.6	
688.1	CARBONDALE		GRAY SHALE	8.2	65.8	
679.9	CARBONDALE	HERRIN	COAL	0.8	74.0	
679.1	CARBONDALE	HERRIN	BLUE BAND	0.2	74.8	
678.9	CARBONDALE	HERRIN	COAL	2.0	75.0	
676.9	CARBONDALE		UNDERCLAY	2.0	77.0	
674.9	CARBONDALE		SANDSTONE	11.0	79.0	
663.9	CARBONDALE		GRAY SHALE	25.8	90.0	
638.1	CARBONDALE		LIMESTONE	0.4	115.8	
637.7	CARBONDALE		DARK SHALE	19.8	116.2	
617.9	CARBONDALE		LIMESTONE	0.8	136.0	
617.1	CARBONDALE		DARK SHALE	1.0	136.8	
616.1	CARBONDALE		LIMESTONE	0.3	137.8	
615.8	CARBONDALE		DARK SHALE	1.9	138.1	
613.9	CARBONDALE		BLACK SHALE	1.4	140.0	
612.5	CARBONDALE	SPRINGFIELD	COAL	4.1	141.4	
608.4	CARBONDALE		UNDERCLAY	1.5	145.5	

MAPID: 05785033000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.111429

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638764

DATE COLLECTED: 1 / 9 / 1946

SURFACE ELEVATION (FT.): 756.4 LOGGED (FT.): 77.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 191

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
756.4	PLEISTOCENE		SOIL	1.0	0.0
755.4	PLEISTOCENE		SANDY CLAY	27.6	1.0
727.8	PLEISTOCENE		CLAY	16.7	28.6
711.1	CARBONDALE		GRAY SHALE	10.0	45.3
701.1	CARBONDALE		SANDSTONE	3.4	55.3
697.7	CARBONDALE		GRAY SHALE	11.3	58.7
686.4	CARBONDALE	ANNA	DARK SHALE	2.0	70.0
684.4	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.7	72.0
682.7	CARBONDALE	HERRIN	BLUE BAND	0.4	73.7
682.3	CARBONDALE	HERRIN	COAL	1.9	74.1
680.4	CARBONDALE		UNDERCLAY	1.4	76.0

MAPID: 05785034000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101879

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.64046

DATE COLLECTED: 2 / 15 / 1960

SURFACE ELEVATION (FT.): 756.9 LOGGED (FT.): 88.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 380

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
756.9	PLEISTOCENE		SOIL	1.0	0.0
755.9	PLEISTOCENE		CLAY	17.3	1.0
738.6	PLEISTOCENE		CLAY & GRAVEL	4.5	18.3
734.1	PLEISTOCENE		CLAY	2.5	22.8
731.6	MODESTO		GRAY SHALE	18.8	25.3
712.8	MODESTO		DARK SHALE	3.1	44.1
709.7	CARBONDALE	DANVILLE	COAL	1.7	47.2
708.0	CARBONDALE		UNDERCLAY	1.1	48.9
706.9	CARBONDALE		GRAY SHALE	16.3	50.0
690.6	CARBONDALE		GRAY SANDSTONE	4.0	66.3
686.6	CARBONDALE		SHALE	1.2	70.3
685.4	CARBONDALE		LIMESTONE	0.2	71.5
685.2	CARBONDALE		GRAY SHALE	7.5	71.7
677.7	CARBONDALE	ANNA	DARK SHALE	2.8	79.2
674.9	CARBONDALE	ANNA	BLACK SHALE	0.8	82.0
674.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.4	82.8
671.7	CARBONDALE	HERRIN	BLUE BAND	0.2	85.2
671.5	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	85.4
669.9	CARBONDALE		UNDERCLAY	1.0	87.0

MAPID: 05785035000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101906 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638653 DATE COLLECTED: 2 / 16 / 1960

SURFACE ELEVATION (FT.): 756.1 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 381 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
756.1	PLEISTOCENE		SOIL	1.0	0.0	
755.1	PLEISTOCENE		CLAY	37.3	1.0	YELLOW
717.8	PLEISTOCENE		CLAY	1.5	38.3	
716.3	CARBONDALE	DANVILLE	COAL	2.0	39.8	TOP ERODED
714.3	CARBONDALE		GRAY SHALE	8.2	41.8	
706.1	CARBONDALE		LIMESTONE	3.4	50.0	
702.7	CARBONDALE		GRAY SHALE	9.8	53.4	
692.9	CARBONDALE		LIMESTONE	0.5	63.2	
692.4	CARBONDALE		GRAY SHALE	10.0	63.7	
682.4	CARBONDALE	ANNA	DARK SHALE	0.9	73.7	
681.5	CARBONDALE		CLAYSTONE	0.9	74.6	WHITE TOP
680.6	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.5	75.5	WHITE TOP
680.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	0.8	76.0	
679.3	CARBONDALE	HERRIN	BLUE BAND	0.2	76.8	
679.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.6	77.0	
677.5	CARBONDALE		UNDERCLAY	1.4	78.6	

MAPID: 05785036000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.108978 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638917 DATE COLLECTED: 3 / 10 / 1960

SURFACE ELEVATION (FT.): 757.1 LOGGED (FT.): 82.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 399 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
757.1	PLEISTOCENE		SOIL	1.0	0.0
756.1	PLEISTOCENE		CLAY	23.4	1.0
732.7	MODESTO		GRAY SHALE	13.4	24.4
719.3	MODESTO		GRAY SHALE	0.7	37.8
718.6	CARBONDALE	DANVILLE	COAL	1.3	38.5
717.3	CARBONDALE		UNDERCLAY	1.2	39.8
716.1	CARBONDALE		GRAY SHALE	10.0	41.0
706.1	CARBONDALE		LIMESTONE	5.6	51.0
700.5	CARBONDALE		CALCAREOUS SHALE	14.8	56.6
685.7	CARBONDALE		DARK SHALE	3.8	71.4
681.9	CARBONDALE	ANNA	BLACK SHALE	1.2	75.2
680.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.4	76.4
678.3	CARBONDALE	HERRIN	BLUE BAND	0.2	78.8
678.1	CARBONDALE	HERRIN	COAL	1.7	79.0
676.4	CARBONDALE		UNDERCLAY	1.3	80.7

MAPID: 05785037000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106642 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638929 DATE COLLECTED: 3 / 12 / 1960

SURFACE ELEVATION (FT.): 755.4 LOGGED (FT.): 90.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 400 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
755.4	PLEISTOCENE		SOIL	1.0	0.0
754.4	PLEISTOCENE		CLAY	19.1	1.0
735.3	PLEISTOCENE		BOULDER	0.5	20.1
734.8	PLEISTOCENE		SANDY CLAY	42.5	20.6
692.3	PLEISTOCENE		CLAY	15.0	63.1
677.3	CARBONDALE	HERRIN	COAL	0.5	78.1
676.8	CARBONDALE		UNDERCLAY	1.8	78.6
675.0	CARBONDALE		LIMESTONE	1.0	80.4
674.0	CARBONDALE		CALCAREOUS SHALE	8.7	81.4

TOP
ERODED;SOFT

MAPID: 05785038000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.107801

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638923

DATE COLLECTED: 3 / 4 / 1960

SURFACE ELEVATION (FT.): 755.9 LOGGED (FT.): 81.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 401

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
755.9	PLEISTOCENE		SOIL	1.0	0.0	
754.9	PLEISTOCENE		CLAY & GRAVEL	38.9	1.0	
716.0	PLEISTOCENE		SAND & GRAVEL	4.0	39.9	
712.0	PLEISTOCENE		CLAY	2.1	43.9	
709.9	CARBONDALE		GRAY SHALE	1.4	46.0	
708.5	CARBONDALE		LIMESTONE	2.7	47.4	
705.8	CARBONDALE		CALCAREOUS SHALE	13.0	50.1	
692.8	CARBONDALE		GRAY SHALE	9.3	63.1	
683.5	CARBONDALE		DARK SHALE	4.4	72.4	
679.1	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.8	76.8	WHITE TOP
678.3	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	77.6	
676.8	CARBONDALE	HERRIN	BLUE BAND	0.2	79.1	
676.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.5	79.3	
675.1	CARBONDALE		UNDERCLAY	1.0	80.8	

MAPID: 05785039000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.106577

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.639777

DATE COLLECTED: 3 / 14 / 1960

SURFACE ELEVATION (FT.): 755.7 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 402

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
755.7	PLEISTOCENE		SOIL	1.0	0.0	
754.7	PLEISTOCENE		CLAY	21.0	1.0	
733.7	PLEISTOCENE		CLAY & GRAVEL	28.0	22.0	
705.7	CARBONDALE		SANDY SHALE	8.0	50.0	
697.7	CARBONDALE		LIMESTONE	0.7	58.0	
697.0	CARBONDALE		GRAY SHALE	12.5	58.7	
684.5	CARBONDALE	ANNA	DARK SHALE	1.3	71.2	
683.2	CARBONDALE	ANNA	BLACK SHALE	1.1	72.5	
682.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.4	73.6	
679.7	CARBONDALE	HERRIN	BLUE BAND	0.2	76.0	
679.5	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.7	76.2	
677.8	CARBONDALE		UNDERCLAY	2.1	77.9	

MAPID: 05785040000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.105429

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638941

DATE COLLECTED: 3 / 15 / 1960

SURFACE ELEVATION (FT.): 755.6 LOGGED (FT.): 77.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 403

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
755.6	PLEISTOCENE		SOIL	1.0	0.0	
754.6	PLEISTOCENE		CLAY	34.4	1.0	
720.2	CARBONDALE	DANVILLE	COAL	1.0	35.4	BLOSSOM TOP ERODED
719.2	CARBONDALE		UNDERCLAY	1.6	36.4	
717.6	CARBONDALE		GRAY SHALE	5.7	38.0	
711.9	CARBONDALE		CALCAREOUS SHALE	3.5	43.7	
708.4	CARBONDALE		LIMESTONE	1.7	47.2	
706.7	CARBONDALE		CALCAREOUS SHALE	10.8	48.9	
695.9	CARBONDALE		SANDY SHALE	7.0	59.7	
688.9	CARBONDALE		DARK SHALE	1.0	66.7	
687.9	CARBONDALE	BRERETON	LIMESTONE	3.6	67.7	
684.3	CARBONDALE		CLAYSTONE	0.4	71.3	WHITE TOP
683.9	CARBONDALE	HERRIN	COAL	2.1	71.7	
681.8	CARBONDALE	HERRIN	BLUE BAND	0.2	73.8	
681.6	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.7	74.0	
679.9	CARBONDALE		UNDERCLAY	1.3	75.7	

MAPID: 05785041000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104295 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638903 DATE COLLECTED: 3 / 18 / 1960

SURFACE ELEVATION (FT.): 756.0 LOGGED (FT.): 79.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 404 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
756.0	PLEISTOCENE		SOIL	1.0	0.0	
755.0	PLEISTOCENE		CLAY	20.4	1.0	YELLOW
734.6	PLEISTOCENE		CLAY	4.1	21.4	GRAY
730.5	MODESTO		LIMESTONE	0.4	25.5	
730.1	MODESTO		GRAY SHALE	9.1	25.9	
721.0	MODESTO		DARK SHALE	2.1	35.0	
718.9	CARBONDALE	DANVILLE	COAL	1.4	37.1	
717.5	CARBONDALE		UNDERCLAY	1.5	38.5	
716.0	CARBONDALE		GRAY SHALE	5.3	40.0	
710.7	CARBONDALE		LIMESTONE	0.7	45.3	
710.0	CARBONDALE		GRAY SHALE	1.0	46.0	
709.0	CARBONDALE		LIMESTONE	1.5	47.0	
707.5	CARBONDALE		CALCAREOUS SHALE	14.5	48.5	
693.0	CARBONDALE		GRAY SHALE	8.0	63.0	
685.0	CARBONDALE	ANNA	DARK SHALE	2.6	71.0	
682.4	CARBONDALE		CLAYSTONE	0.4	73.6	WHITE TOP
682.0	CARBONDALE	HERRIN	COAL	2.1	74.0	
679.9	CARBONDALE	HERRIN	BLUE BAND	0.2	76.1	
679.7	CARBONDALE	HERRIN	COAL	1.5	76.3	
678.2	CARBONDALE		UNDERCLAY	1.2	77.8	

MAPID: 05785197000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116185

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638905

DATE COLLECTED: 2 / 2 / 1946

SURFACE ELEVATION (FT.): 753.0 LOGGED (FT.): 68.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 192

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
753.0	PLEISTOCENE		SOIL	1.0	0.0	
752.0	PLEISTOCENE		CLAY	20.3	1.0	YELLOW
731.7	PLEISTOCENE		CLAY	12.0	21.3	GRAY
719.7	CARBONDALE		GRAY SHALE	29.5	33.3	
690.2	CARBONDALE	HERRIN	COAL	2.5	62.8	
687.7	CARBONDALE	HERRIN	BLUE BAND	0.2	65.3	
687.5	CARBONDALE	HERRIN	COAL	1.0	65.5	
686.5	CARBONDALE		UNDERCLAY	1.8	66.5	

MAPID: 05785198000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118663

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63897

DATE COLLECTED: 1 / 30 / 1946

SURFACE ELEVATION (FT.): 753.0 LOGGED (FT.): 85.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 225

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
753.0	PLEISTOCENE		SOIL	1.0	0.0	
752.0	PLEISTOCENE		SANDY CLAY	28.3	1.0	YELLOW
723.7	PLEISTOCENE		SANDY CLAY	15.0	29.3	GRAY
708.7	PLEISTOCENE		CLAY	16.5	44.3	
692.2			GRAY SHALE	11.2	60.8	
681.0			LIMESTONE	2.3	72.0	
678.7			UNKNOWN	2.7	74.3	DARK MATERIAL WITH WOOD PARTING
676.0			UNKNOWN	3.0	77.0	
673.0			ROCK	5.3	80.0	

MAPID: 05785199000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12097 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638983 DATE COLLECTED: 1 / 31 / 1946

SURFACE ELEVATION (FT.): 753.0 LOGGED (FT.): 81.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 227 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
753.0	PLEISTOCENE		SOIL	1.0	0.0	
752.0	PLEISTOCENE		SANDY CLAY	24.6	1.0	YELLOW
727.4	PLEISTOCENE		SANDY CLAY	4.4	25.6	GRAY
723.0	PLEISTOCENE		UNKNOWN	3.2	30.0	COAL
719.8	PLEISTOCENE		CLAY	3.8	33.2	GRAY
716.0	PLEISTOCENE		CLAY	5.3	37.0	
710.7	PLEISTOCENE		BOULDER	2.0	42.3	
708.7	PLEISTOCENE		SANDY CLAY	16.7	44.3	
692.0	CARBONDALE		GRAY SHALE	13.3	61.0	
678.7	CARBONDALE	ANNA	DARK SHALE	1.7	74.3	
677.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.7	76.0	
675.3	CARBONDALE	HERRIN	SHALE	0.3	77.7	
675.0	CARBONDALE	HERRIN	COAL	1.6	78.0	
673.4	CARBONDALE		UNDERCLAY	1.7	79.6	

MAPID: 05785207000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117496 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.638046 DATE COLLECTED:

SURFACE ELEVATION (FT.): 752.0 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT2 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.0			UNKNOWN	100.0	0.0	NO COAL

MAPID: 05785208000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 36 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.119832 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.638026 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 754.0 **LOGGED (FT.):** 77.6 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST TT20 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
754.0			UNKNOWN	74.3	0.0	
679.7	CARBONDALE	HERRIN	COAL	3.3	74.3	

MAPID: 05785209000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 36 **QUARTERS/FOOTAGES:**
QUADRANGLE: FAIRVIEW **LONGITUDE:** -90.125839 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.65913 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 753.0 **LOGGED (FT.):** 80.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST TT8 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
753.0			UNKNOWN	80.0	0.0	NO COAL

MAPID: 05785210000C **VERSION:** 1 **PROJECT:** NCRDS00
COUNTY: FULTON **TWP/RNG:** 8N 3E **SECTION:** 36 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.117433 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 40.63995 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 752.0 **LOGGED (FT.):** 100.0 **LOG TYPE:** Drillers Log
SOURCE: MIDLAND COAL CO. FARMWEST TT25 **WELL TYPE:** Coal Test
COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.0			UNKNOWN	100.0	0.0	NO COAL

MAPID: 05785211000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119801

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63988

DATE COLLECTED:

SURFACE ELEVATION (FT.): 749.0 LOGGED (FT.): 75.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT21

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 12

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.0			UNKNOWN	74.0	0.0	
675.0	CARBONDALE	HERRIN	COAL	1.6	74.0	

MAPID: 05785845000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.12106

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633594

DATE COLLECTED: 5 / 12 / 1937

SURFACE ELEVATION (FT.): 749.0 LOGGED (FT.): 75.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 71

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.0	PLEISTOCENE		CLAY	16.0	0.0	
733.0	PLEISTOCENE		CLAY & SHALE	29.1	16.0	
703.9	PLEISTOCENE		SAND	5.0	45.1	
698.9	PLEISTOCENE		CLAY	2.2	50.1	
696.7	CARBONDALE		LIMESTONE	1.7	52.3	
695.0	CARBONDALE		SHALE	16.4	54.0	
678.6	CARBONDALE	HERRIN	COAL/CLAYSTONE	3.3	70.4	
675.3	CARBONDALE		UNDERCLAY	1.9	73.7	

MAPID: 05785846000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116221

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633547

DATE COLLECTED: 5 / 11 / 1937

SURFACE ELEVATION (FT.): 748.0 LOGGED (FT.): 68.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 75

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.0	PLEISTOCENE		CLAY	18.2	0.0	
729.8	PLEISTOCENE		SANDY CLAY	26.9	18.2	SOFT
702.9	PLEISTOCENE		SANDY CLAY	7.6	45.1	GREEN
695.3	PLEISTOCENE		SANDY CLAY	1.5	52.7	GRAY
693.8	PLEISTOCENE		SANDY CLAY	2.6	54.2	GREEN
691.2	PLEISTOCENE		CLAY	6.5	56.8	
684.7	CARBONDALE	HERRIN	COAL	1.5	63.3	VERY SOFT; TOP ERODED
683.2	CARBONDALE	HERRIN	COAL	0.6	64.8	SOFT
682.6	CARBONDALE	HERRIN	SHALE	0.2	65.4	
682.4	CARBONDALE	HERRIN	COAL	1.7	65.6	SOFT
680.7	PLEISTOCENE		UNDERCLAY	0.7	67.3	

MAPID: 05785847000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116233

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.631699

DATE COLLECTED: 1 / 22 / 1946

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 75.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 178

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0	PLEISTOCENE		SOIL	1.0	0.0	
745.0	PLEISTOCENE		CLAY	20.3	1.0	
724.7	PLEISTOCENE		SANDY CLAY	16.5	21.3	
708.2	PLEISTOCENE		CLAY	20.1	37.8	
688.1	PLEISTOCENE		SANDY CLAY	17.4	57.9	

MAPID: 05785848000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.115046

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.632588

DATE COLLECTED: 1 / 23 / 1946

SURFACE ELEVATION (FT.): 747.0 LOGGED (FT.): 64.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 182

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.0	PLEISTOCENE		SOIL	1.0	0.0	
746.0	PLEISTOCENE		CLAY	5.0	1.0	
741.0	PLEISTOCENE		SANDY CLAY	15.3	6.0	
725.7	CARBONDALE		GRAY SANDSTONE	17.6	21.3	
708.1	CARBONDALE		GRAY SHALE	19.7	38.9	
688.4	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.5	58.6	
685.9	CARBONDALE		UNDERCLAY	3.2	61.1	

MAPID: 05785849000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11383

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633433

DATE COLLECTED: 1 / 11 / 1946

SURFACE ELEVATION (FT.): 748.0 LOGGED (FT.): 65.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 193

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.0	PLEISTOCENE		SOIL	1.0	0.0	
747.0	PLEISTOCENE		SANDY CLAY	14.6	1.0	YELLOW
732.4	PLEISTOCENE		SANDY CLAY	10.0	15.6	GRAY
722.4	PLEISTOCENE		SANDY CLAY	3.4	25.6	YELLOW
719.0	PLEISTOCENE		SANDY CLAY	2.8	29.0	GRAY
716.2	PLEISTOCENE		BOULDER	1.4	31.8	
714.8	PLEISTOCENE		CLAY	12.1	33.2	
702.7	PLEISTOCENE		SANDY CLAY	14.5	45.3	
688.2	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.0	59.8	TOP ERODED
686.2	CARBONDALE	HERRIN	SHALE	0.3	61.8	
685.9	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.7	62.1	
684.2	CARBONDALE		UNDERCLAY	1.5	63.8	

MAPID: 0578585000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116264

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637136

DATE COLLECTED: 2 / 3 / 1945

SURFACE ELEVATION (FT.): 754.0 LOGGED (FT.): 72.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 194

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
754.0	PLEISTOCENE		SOIL	1.0	0.0	
753.0	PLEISTOCENE		CLAY	20.3	1.0	YELLOW
732.7	PLEISTOCENE		CLAY	11.5	21.3	GRAY
721.2	CARBONDALE	DANVILLE	COAL	2.5	32.8	SOFT TOP ERODED
718.7	CARBONDALE		UNDERCLAY	1.0	35.3	
717.7	CARBONDALE		GRAY SHALE	12.4	36.3	
705.3	CARBONDALE		GRAY SANDSTONE	5.9	48.7	
699.4	CARBONDALE		GRAY SHALE	10.7	54.6	
688.7	CARBONDALE	BRERETON	LIMESTONE	2.5	65.3	
686.2	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	3.5	67.8	
682.7	CARBONDALE		UNDERCLAY	1.0	71.3	

MAPID: 05785851000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113839

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63165

DATE COLLECTED: 1 / 14 / 1946

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 85.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 195

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.0	PLEISTOCENE		SOIL	1.0	0.0	
744.0	PLEISTOCENE		SANDY CLAY	9.6	1.0	
734.4	PLEISTOCENE		SANDY CLAY	2.0	10.6	& BROKEN COAL
732.4	PLEISTOCENE		CLAY, SAND & GRAVEL	22.7	12.6	
709.7	PLEISTOCENE		SANDY CLAY	16.7	35.3	
693.0	PLEISTOCENE		CLAY	33.3	52.0	

MAPID: 05785852000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FAIRVIEW LONGITUDE: -90.141373

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684104

DATE COLLECTED: 2 / 4 / 1946

SURFACE ELEVATION (FT.): 752.0 LOGGED (FT.): 71.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 196

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.0	PLEISTOCENE		SOIL	1.0	0.0	
751.0	PLEISTOCENE		CLAY	20.3	1.0	YELLOW
730.7	PLEISTOCENE		CLAY	15.0	21.3	GRAY
715.7	CARBONDALE		GRAY SHALE	21.5	36.3	
694.2	CARBONDALE		GRAY SANDSTONE	5.0	57.8	
689.3	CARBONDALE		DARK SHALE	4.0	62.7	
685.2	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.5	66.8	
682.7	CARBONDALE	HERRIN	BLUE BAND	0.2	69.3	
682.5	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	1.4	69.5	
681.1	CARBONDALE		UNDERCLAY	0.4	70.9	

MAPID: 05785853000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.113935

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629832

DATE COLLECTED: 1 / 15 / 1946

SURFACE ELEVATION (FT.): 744.0 LOGGED (FT.): 75.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 197

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.0	PLEISTOCENE		SOIL	1.0	0.0	
743.0	PLEISTOCENE		SANDY CLAY	24.6	1.0	YELLOW
718.4	PLEISTOCENE		SANDY CLAY	12.4	25.6	GRAY
706.0	PLEISTOCENE		SANDY CLAY	2.0	38.0	COAL TRACES
704.0	PLEISTOCENE		SANDY CLAY	35.3	40.0	

MAPID: 05785854000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118684

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633579

DATE COLLECTED: 2 / 5 / 1946

SURFACE ELEVATION (FT.): 748.0 LOGGED (FT.): 72.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 198

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.0	PLEISTOCENE		SOIL	1.0	0.0	
747.0	PLEISTOCENE		CLAY	20.3	1.0	
726.7	PLEISTOCENE		SAND	5.5	21.3	
721.2	PLEISTOCENE		CLAY	9.9	26.8	
711.3	CARBONDALE		GRAY SHALE	11.1	36.7	
700.2	CARBONDALE		GRAY SANDSTONE	4.0	47.8	
696.2	CARBONDALE		GRAY SHALE	13.4	51.8	
682.7	CARBONDALE	BRERETON	LIMESTONE	2.5	65.3	
680.2	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.5	67.8	
677.7	CARBONDALE	HERRIN	BLUE BAND	0.2	70.3	
677.5	CARBONDALE	SPRINGFIELD	COAL W/ BLACK SHALE	0.5	70.5	
677.0	CARBONDALE		UNDERCLAY	1.0	71.0	

MAPID: 05785855000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11397

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.628013

DATE COLLECTED: 1 / 16 / 1946

SURFACE ELEVATION (FT.): 743.0 LOGGED (FT.): 85.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 199

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.0	PLEISTOCENE		SOIL	1.0	0.0	
742.0	PLEISTOCENE		SANDY CLAY	22.6	1.0	YELLOW
719.4	PLEISTOCENE		SANDY CLAY	29.4	23.6	
690.0	PLEISTOCENE		CLAY	5.6	53.0	GREEN
684.4	PLEISTOCENE		CLAY	26.7	58.6	GRAY

MAPID: 05785856000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11866 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63538 DATE COLLECTED: 2 / 4 / 1946

SURFACE ELEVATION (FT.): 753.0 LOGGED (FT.): 78.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 200 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
753.0	PLEISTOCENE		SOIL	1.0	0.0	
752.0	PLEISTOCENE		CLAY	5.0	1.0	
747.0	PLEISTOCENE		SANDY CLAY	30.8	6.0	
716.2	PLEISTOCENE		CLAY	11.1	36.8	
705.1	CARBONDALE		GRAY SHALE	24.6	47.9	
680.5	CARBONDALE	BRERETON	LIMESTONE	1.8	72.5	
678.7	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.5	74.3	
676.2	CARBONDALE	HERRIN	BLUE BAND	0.2	76.8	
676.0	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	0.9	77.0	
675.1	CARBONDALE		UNDERCLAY	1.0	77.9	

MAPID: 05785857000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.114023 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626253 DATE COLLECTED: 1 / 17 / 1946

SURFACE ELEVATION (FT.): 740.0 LOGGED (FT.): 56.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 201 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.0	PLEISTOCENE		SOIL	1.0	0.0	
739.0	PLEISTOCENE		SANDY CLAY	27.6	1.0	YELLOW
711.4	PLEISTOCENE		SANDY CLAY	8.8	28.6	GRAY
702.6	PLEISTOCENE		CLAY	4.2	37.4	GREEN
698.4	PLEISTOCENE		CLAY	4.0	41.6	
694.4	CARBONDALE		GRAY SHALE	7.3	45.6	
687.1	CARBONDALE	HERRIN	COAL W/ BLACK SHALE	2.0	52.9	
685.1	CARBONDALE		UNDERCLAY	1.7	54.9	

MAPID: 05785858000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11637 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626313 DATE COLLECTED: 1 / 18 / 1946

SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 85.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 203 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.0	PLEISTOCENE		SOIL	1.0	0.0	
734.0	PLEISTOCENE		SANDY CLAY	14.6	1.0	& BOULDERS YEL
719.4	PLEISTOCENE		SANDY CLAY	10.0	15.6	& BOULDERS GRAY
709.4	PLEISTOCENE		CLAY, SAND & GRAVEL	35.4	25.6	
674.0	PLEISTOCENE		UNKNOWN	1.5	61.0	& WOOD
672.5	PLEISTOCENE		SANDY CLAY	6.5	62.5	
665.9	PLEISTOCENE		CLAY	16.3	69.1	

MAPID: 05785859000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.11631 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.628068 DATE COLLECTED: 1 / 18 / 1946

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 80.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 205 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0	PLEISTOCENE		SOIL	1.0	0.0	
745.0	PLEISTOCENE		SANDY CLAY	22.6	1.0	
722.4	PLEISTOCENE		CLAY, SAND & GRAVEL	56.7	23.6	

MAPID: 05785860000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116274 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6298 DATE COLLECTED: 1 / 18 / 1946

SURFACE ELEVATION (FT.): 745.0 LOGGED (FT.): 81.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 207 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.0	PLEISTOCENE		SOIL	1.0	0.0	
744.0	PLEISTOCENE		SANDY CLAY	27.0	1.0	
717.0	PLEISTOCENE		SANDY CLAY	53.3	28.0	

MAPID: 05785861000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112829 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.628847 DATE COLLECTED: 1 / 19 / 1946

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 65.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 211 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0	PLEISTOCENE		SOIL	1.0	0.0	
745.0	PLEISTOCENE		SANDY CLAY	27.6	1.0	& BOULDERS
717.4	PLEISTOCENE		SANDY CLAY	21.4	28.6	
696.0	PLEISTOCENE		CLAY	6.8	50.0	
689.2	CARBONDALE	BRERETON	LIMESTONE	2.8	56.8	SOFT
686.4	CARBONDALE		UNKNOWN	2.1	59.6	
684.3	CARBONDALE	HERRIN	COAL	0.7	61.7	BROKEN
683.6	CARBONDALE		UNDERCLAY	2.9	62.4	

MAPID: 05785862000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.112641 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.632539 DATE COLLECTED: 1 / 23 / 1946

SURFACE ELEVATION (FT.): 746.0 LOGGED (FT.): 85.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 215 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
746.0	PLEISTOCENE		SOIL	1.0	0.0	
745.0	PLEISTOCENE		SANDY CLAY	9.0	1.0	
736.0	PLEISTOCENE		UNKNOWN	2.0	10.0	DARK MATERIAL W COAL
734.0	PLEISTOCENE		SANDY CLAY	3.6	12.0	YELLOW
730.4	PLEISTOCENE		SANDY CLAY	34.4	15.6	GRAY
696.0	PLEISTOCENE		CLAY	5.3	50.0	GREEN
690.7	PLEISTOCENE		CLAY	24.7	55.3	GREEN
666.0	PLEISTOCENE		CLAY	5.3	80.0	GRAY

MAPID: 05785863000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120994

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637203

DATE COLLECTED: 2 / 2 / 1946

SURFACE ELEVATION (FT.): 752.0 LOGGED (FT.): 88.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 229

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.0	PLEISTOCENE		SOIL	1.0	0.0	
751.0	PLEISTOCENE		SANDY CLAY	26.3	1.0	YELLOW
724.7	PLEISTOCENE		SANDY CLAY	11.0	27.3	GRAY
713.7	PLEISTOCENE		CLAY	7.0	38.3	
706.7	PLEISTOCENE		SANDY CLAY	5.0	45.3	GRAY
701.7	CARBONDALE		SANDSTONE	17.8	50.3	
683.9	CARBONDALE		GRAY SHALE	14.9	68.1	
669.0	CARBONDALE		CLAYSTONE	2.3	83.0	WHITE TOP
666.7	CARBONDALE	HERRIN	COAL	1.6	85.3	
665.1	CARBONDALE		UNDERCLAY	1.1	86.9	

MAPID: 05785864000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118618

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.637166

DATE COLLECTED: 2 / 4 / 1946

SURFACE ELEVATION (FT.): 753.0 LOGGED (FT.): 78.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 231

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
753.0	PLEISTOCENE		SOIL	1.0	0.0	
752.0	PLEISTOCENE		SANDY CLAY	27.1	1.0	YELLOW WITH BOULDERS
724.9	PLEISTOCENE		SANDY CLAY	18.6	28.1	& BOULDERS GRAY
706.3	PLEISTOCENE		CLAY	1.3	46.7	
705.0	CARBONDALE		SANDSTONE	7.3	48.0	
697.7	CARBONDALE		CLAYSTONE	2.0	55.3	
695.7	CARBONDALE		GRAY SHALE	15.7	57.3	
680.0	CARBONDALE	ANNA	DARK SHALE	2.0	73.0	
678.0	CARBONDALE	HERRIN	COAL	1.4	75.0	
676.6	CARBONDALE		UNDERCLAY	1.6	76.4	

MAPID: 05785868000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117476

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636272

DATE COLLECTED:

SURFACE ELEVATION (FT.): 752.0 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT26

WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.0			UNKNOWN	100.0	0.0	NO COAL

MAPID: 05785869000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.119997

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.636292

DATE COLLECTED:

SURFACE ELEVATION (FT.): 753.5 LOGGED (FT.): 80.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT39

WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
753.5			UNKNOWN	75.7	0.0	
677.8	CARBONDALE	HERRIN	COAL	4.8	75.7	

MAPID: 05785875000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.117493

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634443

DATE COLLECTED:

SURFACE ELEVATION (FT.): 750.0 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT27

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.0			UNKNOWN	100.0	0.0	NO COAL

MAPID: 05785876000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.120017 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.634471 DATE COLLECTED:

SURFACE ELEVATION (FT.): 752.4 LOGGED (FT.): 75.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT40 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.4			UNKNOWN	70.8	0.0	
681.6	CARBONDALE	HERRIN	COAL	4.5	70.8	

MAPID: 05785882000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.118973 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63358 DATE COLLECTED:

SURFACE ELEVATION (FT.): 750.4 LOGGED (FT.): 77.1 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT11 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.4			UNKNOWN	73.6	0.0	
676.8	CARBONDALE	HERRIN	COAL	3.5	73.6	

MAPID: 05785883000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116329 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.633525 DATE COLLECTED:

SURFACE ELEVATION (FT.): 748.0 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT19 WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.0			UNKNOWN	80.0	0.0	NO COAL

MAPID: 05786087000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103324

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.627601

DATE COLLECTED: 11 / 13 / 1961

SURFACE ELEVATION (FT.): 744.5 LOGGED (FT.): 70.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 498

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
744.5	PLEISTOCENE		SOIL	1.0	0.0
743.5	PLEISTOCENE		SOIL	10.8	1.0
732.7	PLEISTOCENE		CLAY & GRAVEL	24.8	11.8
707.9	CARBONDALE		GRAY SANDSTONE	11.4	36.6
696.5	CARBONDALE		SHALE	15.6	48.0
680.9	CARBONDALE	ANNA	DARK SHALE	1.9	63.6
679.0	CARBONDALE	HERRIN	COAL	2.1	65.5
676.9	CARBONDALE	HERRIN	BLUE BAND	0.2	67.6
676.7	CARBONDALE	HERRIN	COAL	1.6	67.8
675.1	CARBONDALE		UNDERCLAY	1.0	69.4

MAPID: 05786088000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.104428

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626743

DATE COLLECTED: 11 / 13 / 1961

SURFACE ELEVATION (FT.): 742.9 LOGGED (FT.): 80.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 499

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
742.9	PLEISTOCENE		SOIL	1.0	0.0
741.9	PLEISTOCENE		CLAY	11.2	1.0
730.7	PLEISTOCENE		CLAY & GRAVEL	25.8	12.2
704.9	PLEISTOCENE		SANDY CLAY	42.2	38.0

MAPID: 05786089000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10571 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626789 DATE COLLECTED: 11 / 13 / 1961

SURFACE ELEVATION (FT.): 745.5 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 500 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG FROM CO MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.5	PLEISTOCENE		SOIL	1.0	0.0	
744.5	PLEISTOCENE		CLAY	12.3	1.0	
732.2	PLEISTOCENE		SANDY CLAY	9.6	13.3	
722.6	PLEISTOCENE		SAND & GRAVEL	12.2	22.9	
710.4	CARBONDALE		GRAY SANDSTONE	8.3	35.1	
702.1	CARBONDALE		GRAY SHALE	14.8	43.4	
687.3	CARBONDALE	ANNA	DARK SHALE	1.6	58.2	
685.7	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.3	59.8	WHITE TOP
685.4	CARBONDALE	HERRIN	COAL	1.7	60.1	
683.7	CARBONDALE	HERRIN	BLUE BAND	0.2	61.8	
683.5	CARBONDALE	HERRIN	COAL	1.4	62.0	
682.1	CARBONDALE		UNDERCLAY	1.6	63.4	

MAPID: 05786090000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.102066 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626634 DATE COLLECTED: 11 / 14 / 1961

SURFACE ELEVATION (FT.): 748.5 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 501 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.5	PLEISTOCENE		SOIL	1.0	0.0	
747.5	PLEISTOCENE		CLAY	16.3	1.0	
731.2	PLEISTOCENE		CLAY & GRAVEL	15.5	17.3	
715.7	PLEISTOCENE		SAND & GRAVEL	3.5	32.8	
712.2	PLEISTOCENE		SANDY CLAY	3.9	36.3	
708.3	CARBONDALE		GRAY SANDSTONE	10.6	40.2	
697.7	CARBONDALE		SHALE & SANDSTONE	14.0	50.8	
683.7	CARBONDALE		DARK SHALE	0.6	64.8	
683.1	CARBONDALE	BRERETON	LIMESTONE	2.7	65.4	
680.4	CARBONDALE	ANNA	DARK SHALE	0.5	68.1	
679.9	CARBONDALE	HERRIN	COAL	2.4	68.6	
677.5	CARBONDALE	HERRIN	BLUE BAND	0.2	71.0	
677.3	CARBONDALE	HERRIN	COAL	1.4	71.2	
675.9	CARBONDALE		UNDERCLAY	1.4	72.6	

MAPID: 05786091000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.103443

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.626765

DATE COLLECTED: 11 / 14 / 1961

SURFACE ELEVATION (FT.): 746.5 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 502

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
746.5	PLEISTOCENE		SOIL	1.0	0.0
745.5	PLEISTOCENE		CLAY	14.4	1.0
731.1	PLEISTOCENE		SANDY CLAY	11.5	15.4
719.6	PLEISTOCENE		SANDY CLAY	3.5	26.9
716.1	PLEISTOCENE		CLAY & GRAVEL	8.2	30.4
707.9	CARBONDALE		SANDY SHALE	1.7	38.6
706.2	CARBONDALE		GRAY SANDSTONE	9.6	40.3
696.6	CARBONDALE		GRAY SHALE	2.2	49.9
694.4	CARBONDALE		LIMESTONE	0.8	52.1
693.6	CARBONDALE		GRAY SHALE	5.0	52.9
688.6	CARBONDALE	BRERETON	LIMESTONE	5.6	57.9
683.0	CARBONDALE		CLAYSTONE	0.5	63.5
682.5	CARBONDALE	HERRIN	COAL	1.9	64.0
680.6	CARBONDALE	HERRIN	BLUE BAND	0.2	65.9
680.4	CARBONDALE	HERRIN	COAL	1.4	66.1
679.0	CARBONDALE		UNDERCLAY	1.5	67.5
677.5	CARBONDALE		GRAY SHALE	1.0	69.0

MAPID: 05786092000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 3E SECTION: 36 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10206 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.63014 DATE COLLECTED: 11 / 15 / 1961

SURFACE ELEVATION (FT.): 742.7 LOGGED (FT.): 63.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 503 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.7	PLEISTOCENE		SOIL	1.0	0.0	
741.7	PLEISTOCENE		CLAY	10.8	1.0	
730.9	PLEISTOCENE		CLAY & GRAVEL	14.8	11.8	
716.1	PLEISTOCENE		SAND & GRAVEL	3.2	26.6	
712.9	CARBONDALE		GRAY SANDSTONE	6.7	29.8	
706.2	CARBONDALE		GRAY SHALE	16.3	36.5	
689.9	CARBONDALE		DARK SHALE	1.6	52.8	
688.3	CARBONDALE	BRERETON	LIMESTONE	3.2	54.4	
685.1	CARBONDALE	ANNA	DARK SHALE	0.3	57.6	
684.8	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.2	57.9	WHITE TOP
684.6	CARBONDALE	HERRIN	COAL	2.3	58.1	
682.3	CARBONDALE	HERRIN	BLUE BAND	0.2	60.4	
682.1	CARBONDALE	HERRIN	COAL	1.4	60.6	
680.7	CARBONDALE		UNDERCLAY	1.5	62.0	

MAPID: 05700830000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES: 100' S line, 1320' E line of SE

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.991331 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.69817 DATE COLLECTED: 11 / 16 / 1917

SURFACE ELEVATION (FT.): 787.0 LOGGED (FT.): 1700.0 LOG TYPE: Drillers Log

SOURCE: BRANDT, C. P., AND CO. WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
787.0			UNCONSOLIDATED	40.0	0.0	LS FRAGS IN LWR 20 FT
747.0	CARBONDALE	DANVILLE	COAL	1.0	40.0	ERODED; TRASK CALLED THIS #6
746.0	CARBONDALE		GRAY SHALE	134.0	41.0	
612.0	CARBONDALE	SPRINGFIELD	COAL	5.0	175.0	
607.0	CARBONDALE		SHALE	140.0	180.0	BLSH GY
467.0	CARBONDALE	COLCHESTER	COAL	5.0	320.0	BASE OF CARBONDALE
462.0			SHALE	80.0	325.0	
382.0			SANDSTONE	20.0	405.0	GY.FN GRND
362.0			SHALE	45.0	425.0	BASE OF PENNSYLVANIAN
317.0			ROCK	1230.0	470.0	MISSISSIPPIAN TO ORDOVICIAN

MAPID: 05700830000C VERSION: 2

PROJECT: NCRDS87

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES: 100' S line, 1320' E line of SE

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.991331

GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 40.69817

DATE COLLECTED: 11 / 16 / 1917

SURFACE ELEVATION (FT.): 788.0

LOGGED (FT.): 470.0

LOG TYPE: Drillers Log

SOURCE: CITY OF FARMINGTON

WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
788.0			UNCONSOLIDATED	40.0	0.0	
748.0	CARBONDALE	DANVILLE	COAL	1.0	40.0	
747.0	CARBONDALE		SHALE	134.0	41.0	
613.0	CARBONDALE	SPRINGFIELD	COAL	5.0	175.0	
608.0	CARBONDALE		SHALE	140.0	180.0	
468.0	CARBONDALE	COLCHESTER	COAL	5.0	320.0	
463.0			SHALE	80.0	325.0	
383.0			SANDSTONE	20.0	405.0	
363.0			SHALE	45.0	425.0	
318.0			UNCLASSIFIED	45.0	470.0	T.D.

MAPID: 05701802000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES: 235' S line, 30' E line of NW

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.995964 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.705801 DATE COLLECTED: 5 / 27 / 1960

SURFACE ELEVATION (FT.): 695.4 LOGGED (FT.): 137.5 LOG TYPE: Drillers Log

SOURCE: MIDLAND ELECTRIC COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.4			UNCONSOLIDATED	11.2	0.0	
684.2	MODESTO		GRAY SHALE	5.9	11.2	
678.3	MODESTO	PIASA	LIMESTONE	0.2	17.1	
678.1	MODESTO	FARMINGTON	GRAY SHALE	5.8	17.3	
672.3	MODESTO		SHALE	3.9	23.1	BS MODESTO; DK
668.4	CARBONDALE	DANVILLE	COAL	1.3	27.0	
667.1	CARBONDALE		UNDERCLAY	1.7	28.3	
665.4	CARBONDALE	LAWSON	GRAY SHALE	9.2	30.0	
656.2	CARBONDALE		LIMESTONE	6.7	39.2	
649.5	CARBONDALE		SHALE	18.0	45.9	GY OVER DK
631.5	CARBONDALE	BRERETON	LIMESTONE	4.4	63.9	
627.1	CARBONDALE		ROCK	0.4	68.3	"WHITE TOP"
626.7	CARBONDALE	HERRIN	COAL	3.9	68.7	
622.8	CARBONDALE		UNDERCLAY	1.4	72.6	
621.4	CARBONDALE		GRAY SHALE	14.0	74.0	
607.4	CARBONDALE		LIMESTONE	0.8	88.0	
606.6	CARBONDALE	CANTON	GRAY SHALE	18.5	88.8	
588.1	CARBONDALE	ST. DAVID	LIMESTONE W/ SHALE	5.8	107.3	"LIMESTONE LENS"
582.3	CARBONDALE		DARK GRAY SHALE	20.4	113.1	
561.9	CARBONDALE		ROCK	2.0	133.5	"CAVE IN"
559.9	CARBONDALE	SPRINGFIELD	COAL	2.0	135.5	"OLD WORKS, GAS"

MAPID: 05791376000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.995903 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.704853 DATE COLLECTED:

SURFACE ELEVATION (FT.): 727.7 LOGGED (FT.): 96.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11562 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.7			UNKNOWN	54.0	0.0	
673.7	CARBONDALE	DANVILLE	COAL	1.5	54.0	
672.2	CARBONDALE		UNKNOWN	37.1	55.5	
635.1	CARBONDALE	HERRIN	COAL	4.2	92.6	

MAPID: 05791377000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.995967

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705252

DATE COLLECTED:

SURFACE ELEVATION (FT.): 731.1 LOGGED (FT.): 100.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11286

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.1			UNKNOWN	58.3	0.0	
672.8	CARBONDALE	DANVILLE	COAL	1.0	58.3	
671.8	CARBONDALE		UNKNOWN	37.3	59.3	
634.5	CARBONDALE	HERRIN	COAL	4.0	96.6	

MAPID: 05791378000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.995894

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.706133

DATE COLLECTED:

SURFACE ELEVATION (FT.): 740.1 LOGGED (FT.): 107.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11301

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.1			UNKNOWN	66.3	0.0	
673.8	CARBONDALE	DANVILLE	COAL	1.4	66.3	
672.4	CARBONDALE		UNKNOWN	35.6	67.7	
636.8	CARBONDALE		CLAYSTONE	0.8	103.3	WHITE TOP
636.0	CARBONDALE	HERRIN	COAL	3.7	104.1	

MAPID: 05791379000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.995962

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.707095

DATE COLLECTED:

SURFACE ELEVATION (FT.): 729.6 LOGGED (FT.): 107.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11283

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.6			UNKNOWN	63.2	0.0	
666.4	CARBONDALE	DANVILLE	COAL	1.5	63.2	
664.9	CARBONDALE		UNKNOWN	39.1	64.7	
625.8	CARBONDALE		SANDSTONE	0.5	103.8	
625.3	CARBONDALE	HERRIN	COAL/SANDSTONE	1.0	104.3	TOP ERODED
624.3	CARBONDALE	HERRIN	COAL	2.5	105.3	

MAPID: 0579138000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.995955

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.70818

DATE COLLECTED:

SURFACE ELEVATION (FT.): 721.6 LOGGED (FT.): 95.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11302

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.6			UNKNOWN	52.6	0.0	
669.0	CARBONDALE	DANVILLE	COAL	1.4	52.6	
667.6	CARBONDALE		UNKNOWN	37.4	54.0	
630.2	CARBONDALE		CLAYSTONE	0.8	91.4	WHITE TOP
629.3	CARBONDALE	HERRIN	COAL	3.6	92.3	

MAPID: 05791381000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.996037

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708968

DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.1 LOGGED (FT.): 92.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11247

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.1			UNKNOWN	48.1	0.0	
669.0	CARBONDALE	DANVILLE	COAL	1.5	48.1	
667.5	CARBONDALE		UNKNOWN	38.8	49.6	
628.7	CARBONDALE	HERRIN	COAL	4.4	88.4	

MAPID: 05791382000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.997508

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709881

DATE COLLECTED:

SURFACE ELEVATION (FT.): 690.5 LOGGED (FT.): 65.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11246

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.5			UNKNOWN	20.2	0.0	
670.3	CARBONDALE	DANVILLE	COAL	1.4	20.2	
668.9	CARBONDALE		UNKNOWN	39.7	21.6	
629.2	CARBONDALE	HERRIN	COAL/SANDSTONE	1.0	61.3	TOP ERODED
628.2	CARBONDALE	HERRIN	COAL	3.3	62.3	

MAPID: 05791383000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.997095

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.704859

DATE COLLECTED:

SURFACE ELEVATION (FT.): 712.9 LOGGED (FT.): 82.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11563

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.9			UNKNOWN	38.5	0.0	
674.4	CARBONDALE	DANVILLE	COAL	1.3	38.5	
673.1	CARBONDALE		UNKNOWN	38.2	39.8	
634.9	CARBONDALE	HERRIN	COAL	4.2	78.0	

MAPID: 05791386000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.998641

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708593

DATE COLLECTED:

SURFACE ELEVATION (FT.): 678.1 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11564

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.1			UNKNOWN	75.0	0.0	

MAPID: 05791387000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.998137

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708593

DATE COLLECTED:

SURFACE ELEVATION (FT.): 696.5 LOGGED (FT.): 71.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11565

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.5			UNKNOWN	23.5	0.0	
673.0	CARBONDALE	DANVILLE	COAL	1.6	23.5	
671.4	CARBONDALE		UNKNOWN	41.6	25.1	
629.8	CARBONDALE	HERRIN	COAL	4.4	66.7	

MAPID: 05791388000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.997713

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708592

DATE COLLECTED:

SURFACE ELEVATION (FT.): 726.4 LOGGED (FT.): 99.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11285

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
726.4			UNKNOWN	52.1	0.0
674.3	CARBONDALE	DANVILLE	COAL	1.4	52.1
672.9	CARBONDALE		UNKNOWN	41.8	53.5
631.1	CARBONDALE	HERRIN	COAL	4.3	95.3

MAPID: 05791389000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.997934

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708591

DATE COLLECTED:

SURFACE ELEVATION (FT.): 728.6 LOGGED (FT.): 105.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11284

WELL TYPE: Coal Test

COMMENT: LOCAL & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
728.6			UNKNOWN	101.1	0.0
627.5	CARBONDALE	HERRIN	COAL	4.2	101.1

MAPID: 05791390000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.998667

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708593

DATE COLLECTED:

SURFACE ELEVATION (FT.): 686.8 LOGGED (FT.): 62.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11303

WELL TYPE: Coal Test

COMMENT: LOCAL & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
686.8			UNKNOWN	18.0	0.0
668.8	CARBONDALE	DANVILLE	COAL	1.4	18.0
667.4	CARBONDALE		UNKNOWN	38.4	19.4
629.0	CARBONDALE	HERRIN	COAL	4.5	57.8

MAPID: 05791391000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.999508

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708592

DATE COLLECTED:

SURFACE ELEVATION (FT.): 685.4 LOGGED (FT.): 58.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11251

WELL TYPE: Coal Test

COMMENT: LOCAL & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.4			UNKNOWN	14.2	0.0
671.2	CARBONDALE	DANVILLE	COAL	1.4	14.2
669.8	CARBONDALE		UNKNOWN	38.1	15.6
631.7	CARBONDALE	HERRIN	COAL	4.5	53.7

MAPID: 05791392000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.999801

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708594

DATE COLLECTED:

SURFACE ELEVATION (FT.): 688.1 LOGGED (FT.): 57.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11297

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.1			UNKNOWN	16.0	0.0
672.1	CARBONDALE	DANVILLE	COAL	1.3	16.0
670.8	CARBONDALE		UNKNOWN	35.6	17.3
635.2	CARBONDALE	HERRIN	COAL	4.3	52.9

MAPID: 05791393000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.999149

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708591

DATE COLLECTED:

SURFACE ELEVATION (FT.): 727.3 LOGGED (FT.): 91.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11250

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
727.3			UNKNOWN	47.8	0.0
679.5	CARBONDALE	DANVILLE	COAL	1.4	47.8
678.1	CARBONDALE		UNKNOWN	37.6	49.2
640.5	CARBONDALE	HERRIN	COAL/SANDSTONE	1.6	86.8 TOP ERODED
638.9	CARBONDALE	HERRIN	COAL	2.8	88.4

MAPID: 05791394000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.998587

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708591

DATE COLLECTED:

SURFACE ELEVATION (FT.): 731.2 LOGGED (FT.): 94.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11253

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
731.2			UNKNOWN	51.8	0.0
679.4	CARBONDALE	DANVILLE	COAL	1.4	51.8
678.0	CARBONDALE		UNKNOWN	36.9	53.2
641.1	CARBONDALE	HERRIN	COAL	4.5	90.1

MAPID: 05791395000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.00305

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708597

DATE COLLECTED:

SURFACE ELEVATION (FT.): 742.7 LOGGED (FT.): 95.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11263

WELL TYPE: Coal Test

COMMENT: LOCAL & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
742.7			UNKNOWN	53.7	0.0
689.0	CARBONDALE	DANVILLE	COAL	1.6	53.7
687.4	CARBONDALE		UNKNOWN	35.6	55.3
651.8	CARBONDALE	HERRIN	COAL	4.4	90.9

MAPID: 05791396000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.004348

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.7086

DATE COLLECTED:

SURFACE ELEVATION (FT.): 741.5 LOGGED (FT.): 95.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11252

WELL TYPE: Coal Test

COMMENT: LOCAL & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
741.5			UNKNOWN	52.4	0.0
689.1	CARBONDALE	DANVILLE	COAL	1.7	52.4
687.4	CARBONDALE		UNKNOWN	36.6	54.1
650.8	CARBONDALE	HERRIN	COAL	4.5	90.7

MAPID: 05791397000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.002941

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708597

DATE COLLECTED:

SURFACE ELEVATION (FT.): 731.3 LOGGED (FT.): 89.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11289

WELL TYPE: Coal Test

COMMENT: LOCAL & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.3			UNKNOWN	45.6	0.0	
685.7	CARBONDALE	DANVILLE	COAL	1.4	45.6	
684.3	CARBONDALE		UNKNOWN	37.8	47.0	
646.5	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.4	84.8	WHITE TOP
645.1	CARBONDALE	HERRIN	COAL	2.9	86.2	

MAPID: 05791398000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.001012

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708594

DATE COLLECTED:

SURFACE ELEVATION (FT.): 733.1 LOGGED (FT.): 94.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL COAL CO. RAP 11248

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP3

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.1			UNKNOWN	51.6	0.0	
681.5	CARBONDALE	DANVILLE	COAL	1.7	51.6	
679.8	CARBONDALE		UNKNOWN	36.3	53.3	
643.5	CARBONDALE	HERRIN	COAL	4.5	89.6	

MAPID: 05791399000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.000893

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708595

DATE COLLECTED:

SURFACE ELEVATION (FT.): 723.3 LOGGED (FT.): 87.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11295

WELL TYPE: Coal Test

COMMENT: LOCAL & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.3			UNKNOWN	45.2	0.0	
678.1	CARBONDALE	DANVILLE	COAL	1.1	45.2	
677.0	CARBONDALE		UNKNOWN	36.5	46.3	
640.5	CARBONDALE		CLAYSTONE	0.2	82.8	WHITE TOP
640.3	CARBONDALE	HERRIN	COAL	4.0	83.0	

MAPID: 05791400000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.002111

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708595

DATE COLLECTED:

SURFACE ELEVATION (FT.): 732.5 LOGGED (FT.): 93.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11298

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.5			UNKNOWN	51.8	0.0	
680.7	CARBONDALE	DANVILLE	COAL	1.5	51.8	
679.2	CARBONDALE		UNKNOWN	35.8	53.3	
643.4	CARBONDALE		CLAYSTONE	0.8	89.1	WHITE TOP
642.6	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.4	89.9	
642.2	CARBONDALE	HERRIN	COAL	3.3	90.3	

MAPID: 05791401000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.002901

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708597

DATE COLLECTED:

SURFACE ELEVATION (FT.): 740.4 LOGGED (FT.): 99.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11262

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.4			UNKNOWN	55.8	0.0	
684.6	CARBONDALE	DANVILLE	COAL	1.6	55.8	
683.0	CARBONDALE		UNKNOWN	37.2	57.4	
645.8	CARBONDALE	HERRIN	COAL/SANDSTONE	0.6	94.6	TOP ERODED
645.2	CARBONDALE	HERRIN	COAL	3.8	95.2	

MAPID: 05791402000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.004079

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708598

DATE COLLECTED:

SURFACE ELEVATION (FT.): 742.7 LOGGED (FT.): 98.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11290

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.7			UNKNOWN	54.5	0.0	
688.2	CARBONDALE	DANVILLE	COAL	1.4	54.5	
686.8	CARBONDALE		UNKNOWN	38.7	55.9	
648.1	CARBONDALE		CLAYSTONE	1.0	94.6	WHITE TOP
647.1	CARBONDALE	HERRIN	COAL	3.2	95.6	

MAPID: 05791403000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.005366

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708601

DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.2 LOGGED (FT.): 98.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11260

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.2			UNKNOWN	52.5	0.0	
691.7	CARBONDALE	DANVILLE	COAL	1.5	52.5	
690.2	CARBONDALE		UNKNOWN	41.9	54.0	
648.3	CARBONDALE	HERRIN	COAL	2.4	95.9	TOP CUT OUT BY SANDSTONE

MAPID: 05791405000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.002897

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708597

DATE COLLECTED:

SURFACE ELEVATION (FT.): 728.5 LOGGED (FT.): 89.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11288

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.5			UNKNOWN	46.1	0.0	
682.4	CARBONDALE	DANVILLE	COAL	1.3	46.1	
681.1	CARBONDALE		UNKNOWN	37.5	47.4	
643.6	CARBONDALE		CLAYSTONE	0.5	84.9	WHITE TOP
643.1	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.0	85.4	
642.1	CARBONDALE	HERRIN	COAL	3.1	86.4	

MAPID: 05791406000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.001676

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708594

DATE COLLECTED:

SURFACE ELEVATION (FT.): 731.5 LOGGED (FT.): 97.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11299

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.5			UNKNOWN	53.6	0.0	
677.9	CARBONDALE	DANVILLE	COAL	1.4	53.6	
676.5	CARBONDALE		UNKNOWN	38.6	55.0	
637.9	CARBONDALE	HERRIN	CLAYSTONE	4.0	93.6	COAL TRACES AND WHITE TOP

MAPID: 05791407000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.00065

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708593

DATE COLLECTED:

SURFACE ELEVATION (FT.): 702.6 LOGGED (FT.): 67.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11296

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.6			UNKNOWN	25.4	0.0	
677.2	CARBONDALE	DANVILLE	COAL	1.5	25.4	
675.7	CARBONDALE		UNKNOWN	36.1	26.9	
639.6	CARBONDALE	HERRIN	COAL	4.3	63.0	

MAPID: 05791408000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.001175

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708596

DATE COLLECTED:

SURFACE ELEVATION (FT.): 719.6 LOGGED (FT.): 84.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11300

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.6			UNKNOWN	38.8	0.0	
680.8	CARBONDALE	DANVILLE	COAL	1.3	38.8	
679.5	CARBONDALE		UNKNOWN	40.0	40.1	
639.5	CARBONDALE	HERRIN	COAL	4.4	80.1	

MAPID: 05791409000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.002981

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708597

DATE COLLECTED:

SURFACE ELEVATION (FT.): 720.9 LOGGED (FT.): 83.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11282

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.9			UNKNOWN	36.6	0.0	
684.3	CARBONDALE	DANVILLE	COAL	1.3	36.6	
683.0	CARBONDALE		UNKNOWN	41.1	37.9	
641.9	CARBONDALE	HERRIN	COAL/SANDSTONE	0.2	79.0	TOP ERODED
641.7	CARBONDALE	HERRIN	COAL	3.9	79.2	

MAPID: 05791410000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.003989

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708598

DATE COLLECTED:

SURFACE ELEVATION (FT.): 735.3 LOGGED (FT.): 94.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11292

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.3			UNKNOWN	45.0	0.0	
690.3	CARBONDALE	DANVILLE	COAL	1.3	45.0	
689.0	CARBONDALE		UNKNOWN	43.4	46.3	
645.6	CARBONDALE	HERRIN	COAL/SANDSTONE	0.6	89.7	
645.0	CARBONDALE	HERRIN	COAL	3.7	90.3	

MAPID: 05791412000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.005301

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708601

DATE COLLECTED:

SURFACE ELEVATION (FT.): 729.3 LOGGED (FT.): 95.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11586

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.3			UNKNOWN	50.7	0.0	
678.6	CARBONDALE	DANVILLE	COAL	2.2	50.7	
676.4	CARBONDALE		UNKNOWN	37.7	52.9	
638.7	CARBONDALE	HERRIN	COAL	4.5	90.6	

MAPID: 05791413000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.003931

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708599

DATE COLLECTED:

SURFACE ELEVATION (FT.): 723.7 LOGGED (FT.): 88.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11293

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.7			UNKNOWN	36.1	0.0	
687.6	CARBONDALE	DANVILLE	COAL	1.2	36.1	
686.4	CARBONDALE		UNKNOWN	46.9	37.3	
639.5	CARBONDALE	HERRIN	COAL/SANDSTONE	2.1	84.2	TOP ERODED
637.4	CARBONDALE	HERRIN	COAL	1.9	86.3	

MAPID: 05791414000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.002955

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708597

DATE COLLECTED:

SURFACE ELEVATION (FT.): 716.6 LOGGED (FT.): 82.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11287

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.6			UNKNOWN	30.1	0.0	
686.5	CARBONDALE	DANVILLE	COAL	1.5	30.1	
685.0	CARBONDALE		UNKNOWN	47.1	31.6	
637.9	CARBONDALE	HERRIN	COAL	3.0	78.7	
634.9	CARBONDALE	HERRIN	COAL/SANDSTONE	1.0	81.7	

MAPID: 05791415000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.003945

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708599

DATE COLLECTED:

SURFACE ELEVATION (FT.): 732.7 LOGGED (FT.): 94.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11585

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.7			UNKNOWN	49.3	0.0	
683.4	CARBONDALE	DANVILLE	COAL	1.4	49.3	
682.0	CARBONDALE		UNKNOWN	38.9	50.7	
643.1	CARBONDALE	HERRIN	COAL	4.5	89.6	

MAPID: 05791416000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.002847 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708598 DATE COLLECTED:

SURFACE ELEVATION (FT.): 716.6 LOGGED (FT.): 78.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11584 WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
716.6			UNKNOWN	30.1	0.0
686.5	CARBONDALE	DANVILLE	COAL	1.5	30.1
685.0	CARBONDALE		UNKNOWN	43.3	31.6
641.7	CARBONDALE	HERRIN	COAL	3.9	74.9

MAPID: 05791417000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.003898 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708599 DATE COLLECTED:

SURFACE ELEVATION (FT.): 728.3 LOGGED (FT.): 91.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11294 WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
728.3			UNKNOWN	47.7	0.0
680.6	CARBONDALE	DANVILLE	COAL	1.8	47.7
678.8	CARBONDALE		UNKNOWN	37.1	49.5
641.7	CARBONDALE	HERRIN	COAL	4.4	86.6

MAPID: 05791418000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.005279 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708601 DATE COLLECTED:

SURFACE ELEVATION (FT.): 730.9 LOGGED (FT.): 94.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11261 WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
730.9			UNKNOWN	49.0	0.0
681.9	CARBONDALE	DANVILLE	COAL	1.5	49.0
680.4	CARBONDALE		UNKNOWN	39.3	50.5
641.1	CARBONDALE	HERRIN	COAL/SANDSTONE	0.4	89.8 TOP ERODED
640.7	CARBONDALE	HERRIN	COAL	4.1	90.2

MAPID: 05791419000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.002778

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708598

DATE COLLECTED:

SURFACE ELEVATION (FT.): 716.8 LOGGED (FT.): 83.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11258

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.8			UNKNOWN	36.6	0.0	
680.2	CARBONDALE	DANVILLE	COAL	1.6	36.6	
678.6	CARBONDALE		UNKNOWN	40.7	38.2	
637.9	CARBONDALE		CLAYSTONE	1.5	78.9	WHITE TOP
636.4	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.0	80.4	
635.4	CARBONDALE	HERRIN	COAL	1.9	81.4	

MAPID: 05791420000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.001922

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708596

DATE COLLECTED:

SURFACE ELEVATION (FT.): 720.4 LOGGED (FT.): 90.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11583

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.4			UNKNOWN	39.8	0.0	
680.6	CARBONDALE	DANVILLE	COAL	1.0	39.8	
679.6	CARBONDALE		UNKNOWN	48.5	40.8	
631.1	CARBONDALE	HERRIN	COAL	1.5	89.3	TOP ERODED BY SANDSTONE

MAPID: 05791422000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.999885

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708594

DATE COLLECTED:

SURFACE ELEVATION (FT.): 679.8 LOGGED (FT.): 57.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11257

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.8			UNKNOWN	7.1	0.0	
672.7	CARBONDALE	DANVILLE	COAL	1.0	7.1	BROKEN
671.7	CARBONDALE		UNKNOWN	45.6	8.1	
626.1	CARBONDALE	HERRIN	COAL/SANDSTONE	1.2	53.7	
624.9	CARBONDALE	HERRIN	COAL	2.9	54.9	

MAPID: 05791423000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.000965

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708597

DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.4 LOGGED (FT.): 90.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11582

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
717.4			UNKNOWN	42.1	0.0
675.3	CARBONDALE	DANVILLE	COAL	1.8	42.1
673.5	CARBONDALE		UNKNOWN	42.8	43.9
630.7	CARBONDALE	HERRIN	COAL	4.2	86.7

MAPID: 05791424000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.001973

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708599

DATE COLLECTED:

SURFACE ELEVATION (FT.): 726.6 LOGGED (FT.): 95.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11587

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
726.6			UNKNOWN	48.8	0.0
677.8	CARBONDALE	DANVILLE	COAL	1.1	48.8
676.7	CARBONDALE		UNKNOWN	41.2	49.9
635.5	CARBONDALE	HERRIN	COAL	4.3	91.1

MAPID: 05791425000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -90.00007

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708596

DATE COLLECTED:

SURFACE ELEVATION (FT.): 696.0 LOGGED (FT.): 73.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11581

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
696.0			UNKNOWN	23.5	0.0
672.5	CARBONDALE	DANVILLE	COAL	1.2	23.5
671.3	CARBONDALE		UNKNOWN	46.1	24.7
625.2	CARBONDALE	HERRIN	COAL/SANDSTONE	0.6	70.8 TOP ERODED
624.6	CARBONDALE	HERRIN	COAL	2.1	71.4

MAPID: 05791426000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.00289 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708597 DATE COLLECTED:

SURFACE ELEVATION (FT.): 730.2 LOGGED (FT.): 94.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11590 WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MPA 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.2			UNKNOWN	51.7	0.0	
678.5	CARBONDALE	DANVILLE	COAL	1.6	51.7	
676.9	CARBONDALE		UNKNOWN	36.7	53.3	
640.2	CARBONDALE	HERRIN	COAL	4.3	90.0	

MAPID: 05791427000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.004087 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708601 DATE COLLECTED:

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 95.2 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11589 WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.0			UNKNOWN	50.9	0.0	
679.1	CARBONDALE	DANVILLE	COAL	1.7	50.9	
677.4	CARBONDALE		UNKNOWN	38.1	52.6	
639.3	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.9	90.7	
637.4	CARBONDALE	HERRIN	COAL	2.6	92.6	

MAPID: 05791428000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.005258 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708601 DATE COLLECTED:

SURFACE ELEVATION (FT.): 733.8 LOGGED (FT.): 93.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11588 WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.8			UNKNOWN	49.7	0.0	
684.1	CARBONDALE	DANVILLE	COAL	1.4	49.7	
682.7	CARBONDALE		UNKNOWN	37.8	51.1	
644.9	CARBONDALE	HERRIN	COAL	4.1	88.9	

MAPID: 05791433000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.000516

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708596

DATE COLLECTED:

SURFACE ELEVATION (FT.): 702.6 LOGGED (FT.): 78.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11256

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIAGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
702.6			UNKNOWN	35.0	0.0
667.6	CARBONDALE	DANVILLE	COAL	1.4	35.0
666.2	CARBONDALE		UNKNOWN	37.9	36.4
628.3	CARBONDALE	HERRIN	COAL	4.5	74.3

MAPID: 05791436000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 1 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON EAST LONGITUDE: -89.999544

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708592

DATE COLLECTED:

SURFACE ELEVATION (FT.): 724.5 LOGGED (FT.): 92.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11249

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
724.5			UNKNOWN	51.4	0.0
673.1	CARBONDALE	DANVILLE	COAL	1.7	51.4
671.4	CARBONDALE		UNKNOWN	34.7	53.1
636.7	CARBONDALE	HERRIN	COAL	4.4	87.8

MAPID: 05790841000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.010447

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.707396

DATE COLLECTED:

SURFACE ELEVATION (FT.): 747.2 LOGGED (FT.): 104.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11265

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
747.2			UNKNOWN	62.0	0.0
685.2	CARBONDALE	DANVILLE	COAL	1.4	62.0
683.8	CARBONDALE		UNKNOWN	36.8	63.4
647.0	CARBONDALE	HERRIN	COAL	4.5	100.2

MAPID: 05790842000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.010424

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709167

DATE COLLECTED:

SURFACE ELEVATION (FT.): 741.2 LOGGED (FT.): 100.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11266

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.2			UNKNOWN	57.4	0.0	
683.8	CARBONDALE	DANVILLE	COAL	1.4	57.4	
682.4	CARBONDALE		UNKNOWN	37.2	58.8	
645.2	CARBONDALE	HERRIN	COAL	4.6	96.0	

MAPID: 05790843000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.012846

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709198

DATE COLLECTED:

SURFACE ELEVATION (FT.): 748.8 LOGGED (FT.): 108.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11272

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.8			UNKNOWN	64.6	0.0	
684.2	CARBONDALE	DANVILLE	COAL	1.3	64.6	
682.9	CARBONDALE		UNKNOWN	38.7	65.9	
644.2	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.8	104.6	WHITE TOP
643.4	CARBONDALE	HERRIN	COAL	3.2	105.4	

MAPID: 05790844000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.012779

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.707408

DATE COLLECTED:

SURFACE ELEVATION (FT.): 744.6 LOGGED (FT.): 103.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11271

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.6			UNKNOWN	56.4	0.0	
688.2	CARBONDALE	DANVILLE	COAL	1.4	56.4	
686.8	CARBONDALE		UNKNOWN	41.8	57.8	
645.0	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.6	99.6	WHITE TOP
643.4	CARBONDALE	HERRIN	COAL	2.4	101.2	

MAPID: 05790845000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.01261 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711122 DATE COLLECTED:

SURFACE ELEVATION (FT.): 735.9 LOGGED (FT.): 98.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11274 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.9			UNKNOWN	52.9	0.0	
683.0	CARBONDALE	DANVILLE	COAL	1.4	52.9	
681.6	CARBONDALE		UNKNOWN	40.3	54.3	
641.3	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.8	94.6	WHITE TOP
640.5	CARBONDALE	HERRIN	COAL	3.4	95.4	

MAPID: 05790846000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.014539 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711136 DATE COLLECTED:

SURFACE ELEVATION (FT.): 739.8 LOGGED (FT.): 97.6 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11273 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.8			UNKNOWN	55.7	0.0	
684.1	CARBONDALE	DANVILLE	COAL	1.4	55.7	
682.7	CARBONDALE		UNKNOWN	36.4	57.1	
646.3	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.9	93.5	WHITE TOP
645.4	CARBONDALE	HERRIN	COAL	3.2	94.4	

MAPID: 05790847000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.012621 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712534 DATE COLLECTED:

SURFACE ELEVATION (FT.): 719.9 LOGGED (FT.): 84.3 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11269 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.9			UNKNOWN	39.9	0.0	
680.0	CARBONDALE	DANVILLE	COAL	1.4	39.9	
678.6	CARBONDALE		UNKNOWN	38.7	41.3	
639.9	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.5	80.0	WHITE TOP
638.4	CARBONDALE	HERRIN	COAL	2.8	81.5	

MAPID: 05790848000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.010318

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712517

DATE COLLECTED:

SURFACE ELEVATION (FT.): 725.6 LOGGED (FT.): 87.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11268

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.6			UNKNOWN	44.7	0.0	
680.9	CARBONDALE	DANVILLE	COAL	1.5	44.7	
679.4	CARBONDALE		UNKNOWN	37.4	46.2	
642.0	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.6	83.6	WHITE TOP
641.4	CARBONDALE	HERRIN	COAL	3.4	84.2	

MAPID: 05790849000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.010362

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711126

DATE COLLECTED:

SURFACE ELEVATION (FT.): 738.1 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11267

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.1			UNKNOWN	57.0	0.0	
681.1	CARBONDALE	DANVILLE	COAL	1.1	57.0	
680.0	CARBONDALE		UNKNOWN	37.3	58.1	
642.7	CARBONDALE	HERRIN	COAL	4.6	95.4	

MAPID: 05790850000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.010492

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705583

DATE COLLECTED:

SURFACE ELEVATION (FT.): 743.5 LOGGED (FT.): 103.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11275

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.5			UNKNOWN	50.5	0.0	
693.0	CARBONDALE	DANVILLE	COAL	1.4	50.5	
691.6	CARBONDALE		UNKNOWN	50.5	51.9	
641.1	CARBONDALE	HERRIN	COAL	1.0	102.4	

MAPID: 05790863000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.008349

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712382

DATE COLLECTED:

SURFACE ELEVATION (FT.): 727.9 LOGGED (FT.): 85.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11463

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.9			UNKNOWN	45.8	0.0	
682.1	CARBONDALE	DANVILLE	COAL	1.0	45.8	
681.1	CARBONDALE		UNKNOWN	35.4	46.8	
645.7	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.6	82.2	WHITE TOP
644.1	CARBONDALE	HERRIN	COAL	1.4	83.8	

MAPID: 05790870000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.017418

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.71263

DATE COLLECTED:

SURFACE ELEVATION (FT.): 719.0 LOGGED (FT.): 75.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11543

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.0			UNKNOWN	37.1	0.0	
681.9	CARBONDALE	DANVILLE	COAL	1.0	37.1	
680.9	CARBONDALE		UNKNOWN	33.1	38.1	
647.8	CARBONDALE	HERRIN	CLAYSTONE	0.7	71.2	WHITE TOP
647.1	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.8	71.9	
646.3	CARBONDALE	HERRIN	COAL	2.6	72.7	

MAPID: 05790871000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.019513

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712593

DATE COLLECTED:

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 78.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11544

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.0			UNKNOWN	74.2	0.0	
657.8	CARBONDALE	HERRIN	COAL	4.5	74.2	

MAPID: 05790872000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.017427

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.710971

DATE COLLECTED:

SURFACE ELEVATION (FT.): 736.5 LOGGED (FT.): 92.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11545

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.5			UNKNOWN	49.3	0.0	
687.2	CARBONDALE	DANVILLE	COAL	1.1	49.3	SOFT
686.1	CARBONDALE		UNKNOWN	37.7	50.4	
648.4	CARBONDALE	HERRIN	COAL	4.6	88.1	

MAPID: 05790873000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.019597

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.710741

DATE COLLECTED:

SURFACE ELEVATION (FT.): 723.7 LOGGED (FT.): 77.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11598

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.7			UNKNOWN	72.8	0.0	
650.9	CARBONDALE	HERRIN	COAL	4.8	72.8	

MAPID: 05790874000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.021755

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.710771

DATE COLLECTED:

SURFACE ELEVATION (FT.): 736.1 LOGGED (FT.): 80.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11597

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.1			UNKNOWN	75.5	0.0	
660.6	CARBONDALE	HERRIN	COAL	4.6	75.5	

MAPID: 05790875000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.018541

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712467

DATE COLLECTED:

SURFACE ELEVATION (FT.): 717.2 LOGGED (FT.): 70.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11600

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.2			UNKNOWN	65.8	0.0	
651.4	CARBONDALE	HERRIN	COAL	4.5	65.8	

MAPID: 05790876000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.021739

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712478

DATE COLLECTED:

SURFACE ELEVATION (FT.): 734.2 LOGGED (FT.): 77.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11601

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.2			UNKNOWN	72.5	0.0	
661.7	CARBONDALE	HERRIN	COAL	4.5	72.5	

MAPID: 05790877000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.017487

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705884

DATE COLLECTED:

SURFACE ELEVATION (FT.): 740.5 LOGGED (FT.): 99.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11542

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.5			UNKNOWN	52.2	0.0	
688.3	CARBONDALE	DANVILLE	COAL	1.4	52.2	SOFT
686.9	CARBONDALE		UNKNOWN	41.4	53.6	
645.5	CARBONDALE	HERRIN	COAL	4.1	95.0	

MAPID: 05790878000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.017517

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.707412

DATE COLLECTED:

SURFACE ELEVATION (FT.): 743.4 LOGGED (FT.): 100.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11593

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.4			UNKNOWN	54.9	0.0	
688.5	CARBONDALE	DANVILLE	COAL	1.4	54.9	
687.1	CARBONDALE		UNKNOWN	40.0	56.3	
647.1	CARBONDALE	HERRIN	COAL	4.4	96.3	

MAPID: 05790879000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.019828

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.70868

DATE COLLECTED:

SURFACE ELEVATION (FT.): 742.7 LOGGED (FT.): 94.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11594

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.7			UNKNOWN	51.4	0.0	
691.3	CARBONDALE	DANVILLE	COAL	1.2	51.4	
690.1	CARBONDALE		UNKNOWN	37.1	52.6	
653.0	CARBONDALE	HERRIN	COAL/CLAYSTONE	3.2	89.7	WHITE TOP
649.8	CARBONDALE	HERRIN	COAL	1.1	92.9	

MAPID: 05790880000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.019845

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.707035

DATE COLLECTED:

SURFACE ELEVATION (FT.): 740.5 LOGGED (FT.): 94.3

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11595

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.5			UNKNOWN	48.3	0.0	
692.2	CARBONDALE	DANVILLE	COAL	1.1	48.3	
691.1	CARBONDALE		UNKNOWN	40.7	49.4	
650.4	CARBONDALE	HERRIN	COAL	4.2	90.1	

MAPID: 05790881000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.021849

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.706974

DATE COLLECTED:

SURFACE ELEVATION (FT.): 739.3 LOGGED (FT.): 86.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11596

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.3			UNKNOWN	83.4	0.0	
655.9	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.9	83.4	WHITE TOP
654.0	CARBONDALE	HERRIN	COAL	1.2	85.3	

MAPID: 05790882000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.021868

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.706042

DATE COLLECTED:

SURFACE ELEVATION (FT.): 739.3 LOGGED (FT.): 86.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11599

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.3			UNKNOWN	81.8	0.0	
657.5	CARBONDALE	HERRIN	COAL	4.6	81.8	

MAPID: 05790883000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.017486

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708673

DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 104.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11602

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNKNOWN	61.0	0.0	
-	CARBONDALE	DANVILLE	COAL	1.5	61.0	
-	CARBONDALE		UNKNOWN	37.5	62.5	
-	CARBONDALE	HERRIN	COAL/CLAYSTONE	2.7	100.0	WHITE TOP
-	CARBONDALE	HERRIN	COAL	1.9	102.7	

MAPID: 05790884000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.021804

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708699

DATE COLLECTED:

SURFACE ELEVATION (FT.): 741.0 LOGGED (FT.): 88.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11603

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.0			UNKNOWN	84.0	0.0	
657.0	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.5	84.0	WHITE TOP
655.5	CARBONDALE	HERRIN	COAL	3.0	85.5	

MAPID: 05790885000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.019812

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705496

DATE COLLECTED:

SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 90.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11604

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO MAP 2A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.0			UNKNOWN	86.1	0.0	
648.9	CARBONDALE	HERRIN	COAL	4.6	86.1	

MAPID: 05791429000C VERSION: 1

PROJECT: NCRDS99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 2 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.006864

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.708603

DATE COLLECTED:

SURFACE ELEVATION (FT.): 733.2 LOGGED (FT.): 96.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 11519

WELL TYPE: Coal Test

COMMENT: LOCALS & DATA DIGITIZED FROM CO MAP 3A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.2			UNKNOWN	52.9	0.0	
680.3	CARBONDALE	DANVILLE	COAL	1.4	52.9	
678.9	CARBONDALE		UNKNOWN	37.2	54.3	
641.7	CARBONDALE		CLAYSTONE	2.6	91.5	WHITE TOP
639.1	CARBONDALE	HERRIN	COAL	2.0	94.1	

MAPID: 05760059000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 3 QUARTERS/FOOTAGES: 0' N line, 500' W line of SW SE SW
 QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.037174 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.700064 DATE COLLECTED: 12 / 11 / 1928
 SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 69.7 LOG TYPE: Drillers Log
 SOURCE: STONEFORT COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.4	CARBONDALE	SPRINGFIELD	COAL	5.1	64.6	

MAPID: 05760068000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 3 QUARTERS/FOOTAGES: 0' S line, 125' W line of NW NW NW
 QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.043012 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.710985 DATE COLLECTED: 12 / 11 / 1928
 SURFACE ELEVATION (FT.): 708.0 LOGGED (FT.): 34.3 LOG TYPE: Drillers Log
 SOURCE: STONEFORT COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.5	CARBONDALE	SPRINGFIELD	COAL	3.8	30.5	

MAPID: 05760069000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 3 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NW NW
 QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.03868 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.710952 DATE COLLECTED: 12 / 11 / 1928
 SURFACE ELEVATION (FT.): 740.0 LOGGED (FT.): 63.3 LOG TYPE: Drillers Log
 SOURCE: STONEFORT COAL CO. WELL TYPE: Coal Test
 COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.6	CARBONDALE	SPRINGFIELD	COAL	4.9	58.4	

MAPID: 05785926000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.038716

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711849

DATE COLLECTED: 9 / 21 / 1976

SURFACE ELEVATION (FT.): 715.3 LOGGED (FT.): 116.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25935

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
715.3	PLEISTOCENE		SANDY CLAY	22.0	0.0
693.3	PLEISTOCENE		CLAY & GRAVEL	14.5	22.0
678.8	CARBONDALE		GRAY SHALE	6.5	36.5
672.3	CARBONDALE	BRERETON	LIMESTONE	5.5	43.0
666.8	CARBONDALE	HERRIN	COAL	2.4	48.5
664.4	CARBONDALE	HERRIN	BLUE BAND	0.3	50.9
664.1	CARBONDALE	HERRIN	COAL	1.6	51.2
662.5	CARBONDALE		UNDERCLAY	1.8	52.8
660.7	CARBONDALE		SANDSTONE	25.4	54.6
635.3	CARBONDALE		DARK SHALE	30.6	80.0
604.7	CARBONDALE	ST. DAVID	LIMESTONE	0.6	110.6
604.1	CARBONDALE	TURNER MINE	DARK SHALE	1.8	111.2
602.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	113.0
600.8	CARBONDALE	SPRINGFIELD	CAVITY	1.5	114.5

MAPID: 05785927000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.038786

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.710207

DATE COLLECTED: 9 / 24 / 1976

SURFACE ELEVATION (FT.): 725.7 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25936

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
725.7	PLEISTOCENE		SANDY CLAY	25.0	0.0
700.7	PLEISTOCENE		CLAY & GRAVEL	17.6	25.0
683.1	PLEISTOCENE		BOULDER	2.4	42.6
680.7	PLEISTOCENE		CLAY & GRAVEL	26.8	45.0
653.9	CARBONDALE		SANDSTONE	7.0	71.8
646.9	CARBONDALE		GRAY SHALE	13.1	78.8
633.8	CARBONDALE		LIMESTONE	0.3	91.9
633.5	CARBONDALE		DARK SHALE	4.6	92.2
628.9	CARBONDALE		LIMESTONE	1.0	96.8
627.9	CARBONDALE		DARK SHALE	7.2	97.8
620.7	CARBONDALE	SPRINGFIELD	CAVITY	5.0	105.0 LOST WATER

MAPID: 05785928000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.038934

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709172

DATE COLLECTED: 9 / 24 / 1976

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25937

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 20

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
730.0	PLEISTOCENE		SOIL	27.5	0.0
702.5	PLEISTOCENE		CLAY & GRAVEL	25.9	27.5
676.6	PLEISTOCENE		BOULDER	0.6	53.4
676.0	PLEISTOCENE		CLAY & GRAVEL	8.0	54.0
668.0	CARBONDALE		GRAY SHALE	5.0	62.0
663.0	CARBONDALE		SANDSTONE	6.5	67.0
656.5	CARBONDALE		GRAY SHALE	16.2	73.5
640.3	CARBONDALE		LIMESTONE	0.3	89.7
640.0	CARBONDALE		DARK SHALE	24.0	90.0
616.0	CARBONDALE	SPRINGFIELD	CAVITY	6.0	114.0

MAPID: 05791437000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.031978

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.727686

DATE COLLECTED:

SURFACE ELEVATION (FT.): 751.1 LOGGED (FT.): 97.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 4428

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO MAP 1A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
751.1			UNKNOWN	97.7	0.0

MAPID: 05791438000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.035818

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.727581

DATE COLLECTED:

SURFACE ELEVATION (FT.): 748.1 LOGGED (FT.): 85.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 4425

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO MAP 1A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
748.1			UNKNOWN	85.7	0.0

MAPID: 05791439000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.034026

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705482

DATE COLLECTED:

SURFACE ELEVATION (FT.): 743.3 LOGGED (FT.): 87.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 9834

WELL TYPE: Coal Test

COMMENT: COORDINATES UPDATED. CO MAP 1A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.3	PLEISTOCENE		SOIL	1.0	0.0	
742.3	PLEISTOCENE		CLAY	30.0	1.0	YELLOW SANDY
712.3	PLEISTOCENE		CLAY	45.0	31.0	GRAY SANDY
667.3	CARBONDALE		GRAY SHALE	3.0	76.0	
664.3	CARBONDALE	BRERETON	LIMESTONE	1.0	79.0	
663.3	CARBONDALE	ANNA	BLACK SHALE	1.4	80.0	
661.9	CARBONDALE	HERRIN	COAL	2.4	81.4	
659.5	CARBONDALE	HERRIN	CLAYSTONE	0.2	83.8	
659.3	CARBONDALE	HERRIN	COAL	2.2	84.0	
657.1	CARBONDALE		UNDERCLAY	1.2	86.2	

MAPID: 05791440000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 3 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.034026

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705482

DATE COLLECTED:

SURFACE ELEVATION (FT.): 749.5 LOGGED (FT.): 96.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. RAP 9833

WELL TYPE: Coal Test

COMMENT: COORDINATES UPDATED. CO MAP 1A

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.5	PLEISTOCENE		SOIL	1.0	0.0	
748.5	PLEISTOCENE		CLAY	25.0	1.0	YELLOW
723.5	PLEISTOCENE		CLAY	24.0	26.0	GRAY SANDY
699.5	PLEISTOCENE		CLAY & GRAVEL	24.6	50.0	GRAY SANDY
674.9	PLEISTOCENE		CLAY	1.0	74.6	DARK
673.9	PLEISTOCENE		CLAY	14.3	75.6	GRAY SANDY
659.6	CARBONDALE	ANNA	BLACK SHALE	0.5	89.9	
659.1	CARBONDALE	HERRIN	COAL	2.4	90.4	SOFT
656.7	CARBONDALE	HERRIN	CLAYSTONE	0.2	92.8	
656.5	CARBONDALE	HERRIN	COAL	2.6	93.0	
653.9	CARBONDALE		UNDERCLAY	0.4	95.6	

MAPID: 05760062000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 4E **SECTION:** 4 **QUARTERS/FOOTAGES:** NE SE SW
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.054643 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.701066 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 700.0 **LOGGED (FT.):** 37.6 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.2	CARBONDALE	SPRINGFIELD	COAL	4.8	32.8	1.25-FT PTG

MAPID: 05760063000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 4E **SECTION:** 4 **QUARTERS/FOOTAGES:** 250' S line, 250' E line of SW SW
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.05922 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.699058 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 680.0 **LOGGED (FT.):** 33.3 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
651.1	CARBONDALE	SPRINGFIELD	COAL	4.3	28.9	

MAPID: 05760065000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 4E **SECTION:** 4 **QUARTERS/FOOTAGES:** 0' N line, 320' W line of NW SW
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.061825 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.705626 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 700.0 **LOGGED (FT.):** 42.8 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.8	CARBONDALE	SPRINGFIELD	COAL	4.7	38.2	

MAPID: 05760066000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 4E **SECTION:** 4 **QUARTERS/FOOTAGES:** 0' S line, 0' W line of SW NW NW
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.062902 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.709252 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 710.0 **LOGGED (FT.):** 49.2 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.3	CARBONDALE	SPRINGFIELD	COAL	4.5	44.7	

MAPID: 05785896000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.048376

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.70928

DATE COLLECTED: 9 / 30 / 1976

SURFACE ELEVATION (FT.): 702.4 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25941

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.4	PLEISTOCENE		SANDY CLAY	22.0	0.0	
680.4	PLEISTOCENE		CLAY & GRAVEL	8.0	22.0	
672.4	PLEISTOCENE		CLAY, SAND & GRAVEL	11.8	30.0	
660.6	PLEISTOCENE		CLAY	18.2	41.8	& BOULDERS
642.4	CARBONDALE		DARK SHALE	15.0	60.0	
627.4	CARBONDALE		LIMESTONE	0.5	75.0	
626.9	CARBONDALE		DARK SHALE	4.0	75.5	
622.9	CARBONDALE	ST. DAVID	LIMESTONE	0.5	79.5	
622.4	CARBONDALE	SPRINGFIELD	CAVITY	-	80.0	

MAPID: 05785897000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.050729

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.70938

DATE COLLECTED: 9 / 30 / 1976

SURFACE ELEVATION (FT.): 685.4 LOGGED (FT.): 73.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25942

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.4	PLEISTOCENE		CLAY & GRAVEL	18.0	0.0	
667.4	PLEISTOCENE		CLAY & GRAVEL	5.8	18.0	GRAY
661.6	CARBONDALE		GRAY SHALE	6.2	23.8	
655.4	CARBONDALE		SHALE & SANDSTONE	10.0	30.0	
645.4	CARBONDALE		DARK SHALE	2.8	40.0	
642.6	CARBONDALE		SANDSTONE	6.7	42.8	
635.9	CARBONDALE		DARK SHALE	19.5	49.5	
616.4	CARBONDALE	ST. DAVID	LIMESTONE	0.5	69.0	
615.9	CARBONDALE	SPRINGFIELD	CAVITY	4.0	69.5	

MAPID: 05785898000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.047259

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709288

DATE COLLECTED: 10 / 1 / 1976

SURFACE ELEVATION (FT.): 693.1 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25943

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
693.1	PLEISTOCENE		CLAY & GRAVEL	10.5	0.0
682.6	PLEISTOCENE		CLAY, SAND & GRAVEL	53.5	10.5
629.1	PLEISTOCENE		CLAY & GRAVEL	22.0	64.0
607.1	PLEISTOCENE		WOOD/CLAY	7.2	86.0
599.9	CARBONDALE		GRAY SANDSTONE	3.8	93.2
596.1	CARBONDALE		GRAY SHALE	3.0	97.0

MAPID: 05785899000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.047676

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709259

DATE COLLECTED: 10 / 1 / 1976

SURFACE ELEVATION (FT.): 700.7 LOGGED (FT.): 87.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25944

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
700.7	PLEISTOCENE		CLAY & GRAVEL	17.9	0.0
682.8	PLEISTOCENE		CLAY & GRAVEL	3.7	17.9 GRAY
679.1	PLEISTOCENE		BOULDER	0.5	21.6
678.6	PLEISTOCENE		CLAY & GRAVEL	49.9	22.1
628.7	CARBONDALE		DARK SHALE	6.0	72.0
622.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	78.0
622.3	CARBONDALE	TURNER MINE	DARK SHALE	1.7	78.4
620.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	80.1
619.3	CARBONDALE	SPRINGFIELD	COAL	3.7	81.4
615.6	CARBONDALE		UNDERCLAY	1.9	85.1

MAPID: 0578590000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.047522

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709508

DATE COLLECTED: 10 / 1 / 1976

SURFACE ELEVATION (FT.): 695.1 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25945

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
695.1	PLEISTOCENE		SANDY CLAY	15.3	0.0
679.8	PLEISTOCENE		CLAY & GRAVEL	74.7	15.3

MAPID: 05785901000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.048046

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709784

DATE COLLECTED: 10 / 4 / 1976

SURFACE ELEVATION (FT.): 702.0 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25946

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
702.0	PLEISTOCENE		SANDY CLAY	21.8	0.0
680.2	PLEISTOCENE		CLAY & GRAVEL	9.2	21.8
671.0	PLEISTOCENE		BOULDER	1.3	31.0
669.7	PLEISTOCENE		CLAY & GRAVEL	67.7	32.3

MAPID: 05785902000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.04839

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709691

DATE COLLECTED: 10 / 6 / 1976

SURFACE ELEVATION (FT.): 701.0 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25947

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
701.0	PLEISTOCENE		CLAY & GRAVEL	21.2	0.0
679.8	PLEISTOCENE		CLAY, SAND & GRAVEL	28.8	21.2
651.0	PLEISTOCENE		CLAY & GRAVEL	29.0	50.0
622.0	CARBONDALE	SPRINGFIELD	CAVITY	1.0	79.0

MAPID: 05785903000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.048305

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.710004

DATE COLLECTED: 10 / 6 / 1976

SURFACE ELEVATION (FT.): 697.4 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25948

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.4	PLEISTOCENE		CLAY & GRAVEL	25.0	0.0	YELLOW
672.4	PLEISTOCENE		CLAY & GRAVEL	55.0	25.0	GRAY

MAPID: 05785904000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.04866

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709966

DATE COLLECTED: 10 / 6 / 1976

SURFACE ELEVATION (FT.): 694.4 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25949

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.4	PLEISTOCENE		CLAY & GRAVEL	22.6	0.0	
671.8	PLEISTOCENE		CLAY & GRAVEL	30.6	22.6	
641.2	PLEISTOCENE		CLAY	4.8	53.2	
636.4	CARBONDALE		DARK SHALE	15.9	58.0	
620.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	73.9	
620.1	CARBONDALE	TURNER MINE	DARK SHALE	1.7	74.3	
618.4	CARBONDALE	SPRINGFIELD	CAVITY	4.0	76.0	

MAPID: 05785905000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.048612

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.710245

DATE COLLECTED: 10 / 7 / 1976

SURFACE ELEVATION (FT.): 688.8 LOGGED (FT.): 85.8

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25950

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.8	PLEISTOCENE		CLAY & GRAVEL	21.8	0.0	YELLOW
667.0	PLEISTOCENE		CLAY & GRAVEL	26.2	21.8	GRAY
640.8	PLEISTOCENE		SAND & GRAVEL	17.0	48.0	
623.8	PLEISTOCENE		BOULDER	0.6	65.0	
623.2	PLEISTOCENE		CLAY & GRAVEL	20.2	65.6	

MAPID: 05785906000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.048589

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.710593

DATE COLLECTED: 10 / 8 / 1976

SURFACE ELEVATION (FT.): 672.9 LOGGED (FT.): 70.4

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25952

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.9	PLEISTOCENE		CLAY & GRAVEL	20.0	0.0	YELLOW
652.9	PLEISTOCENE		CLAY & GRAVEL	21.8	20.0	GRAY
631.1	PLEISTOCENE		BOULDER	0.6	41.8	
630.5	PLEISTOCENE		CLAY & GRAVEL	23.1	42.4	
607.4	PLEISTOCENE		SANDY CLAY	4.9	65.5	

MAPID: 05785907000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.044514

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709218

DATE COLLECTED: 10 / 8 / 1976

SURFACE ELEVATION (FT.): 700.3 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25953

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.3	PLEISTOCENE		SANDY CLAY	22.0	0.0	
678.3	PLEISTOCENE		BOULDER	1.0	22.0	
677.3	PLEISTOCENE		CLAY, SAND & GRAVEL	22.2	23.0	
655.1	PLEISTOCENE		BOULDER	1.0	45.2	
654.1	PLEISTOCENE		CLAY & GRAVEL	47.6	46.2	
606.5	PLEISTOCENE		BOULDER	0.5	93.8	
606.0	CARBONDALE		SHALE/UNDERCLAY	4.7	94.3	
601.3	CARBONDALE		LIMESTONE	1.2	99.0	
600.1	CARBONDALE		GRAY SHALE	9.8	100.2	

MAPID: 05785908000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.044306

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709506

DATE COLLECTED: 10 / 11 / 1976

SURFACE ELEVATION (FT.): 696.5 LOGGED (FT.): 94.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25954

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.5	PLEISTOCENE		CLAY & GRAVEL	18.6	0.0	YELLOW
677.9	PLEISTOCENE		CLAY & GRAVEL	6.4	18.6	GRAY
671.5	PLEISTOCENE		BOULDER	2.8	25.0	
668.7	PLEISTOCENE		CLAY & GRAVEL	59.2	27.8	
609.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	87.0	
608.5	CARBONDALE	SPRINGFIELD	COAL	3.4	88.0	
605.1	CARBONDALE		UNDERCLAY	2.8	91.4	

MAPID: 05785909000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.044669

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709526

DATE COLLECTED: 10 / 11 / 1976

SURFACE ELEVATION (FT.): 691.0 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25955

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
691.0	PLEISTOCENE		SANDY CLAY	16.8	0.0	
674.2	PLEISTOCENE		CLAY & GRAVEL	13.2	16.8	
661.0	PLEISTOCENE		CLAY, SAND & GRAVEL	18.2	30.0	
642.8	PLEISTOCENE		CLAY	14.6	48.2	
628.2	PLEISTOCENE		CLAY, SAND & GRAVEL	21.2	62.8	
607.0	CARBONDALE		UNDERCLAY	2.2	84.0	
604.8	CARBONDALE		LIMESTONE	1.3	86.2	
603.5	CARBONDALE		GRAY SHALE	2.5	87.5	

MAPID: 0578591000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.049003

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.710273

DATE COLLECTED: 10 / 12 / 1976

SURFACE ELEVATION (FT.): 693.3 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25956

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
693.3	PLEISTOCENE		SANDY CLAY	13.0	0.0
680.3	PLEISTOCENE		BOULDER	1.0	13.0
679.3	PLEISTOCENE		CLAY & GRAVEL	11.5	14.0
667.8	PLEISTOCENE		SAND & GRAVEL	14.5	25.5
653.3	PLEISTOCENE		CLAY & GRAVEL	45.5	40.0
607.8	PLEISTOCENE		BOULDER	0.5	85.5
607.3	CARBONDALE		UNDERCLAY	2.2	86.0
605.1	CARBONDALE		LIMESTONE	1.8	88.2
603.3	CARBONDALE		GRAY SHALE	10.0	90.0

MAPID: 05785911000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.044643

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711328

DATE COLLECTED: 10 / 15 / 1976

SURFACE ELEVATION (FT.): 697.8 LOGGED (FT.): 83.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25965

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
697.8	PLEISTOCENE		SANDY CLAY	16.8	0.0
681.0	PLEISTOCENE		CLAY & GRAVEL	26.2	16.8
654.8	PLEISTOCENE		CLAY	7.0	43.0
647.8	PLEISTOCENE		CLAY & GRAVEL	12.8	50.0
635.0	CARBONDALE		DARK SHALE	11.6	62.8
623.4	CARBONDALE	ST. DAVID	LIMESTONE	0.4	74.4
623.0	CARBONDALE	TURNER MINE	DARK SHALE	1.8	74.8
621.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	76.6
620.0	CARBONDALE	SPRINGFIELD	COAL	3.5	77.8
616.5	CARBONDALE		UNDERCLAY	1.7	81.3

MAPID: 05785912000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.053853

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711087

DATE COLLECTED: 9 / 24 / 1976

SURFACE ELEVATION (FT.): 701.3 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26262

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.3	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
673.3	PLEISTOCENE		CLAY	36.4	28.0	GRAY
636.9	CARBONDALE		MICACEOUS SHALE	4.3	64.4	
632.6	CARBONDALE		DARK SHALE	22.2	68.7	
610.4	CARBONDALE	ST. DAVID	LIMESTONE	0.4	90.9	
610.0	CARBONDALE	TURNER MINE	DARK SHALE	2.4	91.3	
607.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	93.7	
606.5	CARBONDALE	SPRINGFIELD	COAL	4.0	94.8	
602.5	CARBONDALE		UNDERCLAY	1.2	98.8	

MAPID: 05785913000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.051557

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711313

DATE COLLECTED: 9 / 27 / 1976

SURFACE ELEVATION (FT.): 695.3 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26263

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.3	PLEISTOCENE		CLAY	17.0	0.0	YELLOW
678.3	PLEISTOCENE		CLAY	72.0	17.0	GRAY
606.3	CARBONDALE		UNDERCLAY	1.7	89.0	
604.6	CARBONDALE		LIMESTONE	1.3	90.7	
603.3	CARBONDALE		GRAY SHALE	13.0	92.0	

MAPID: 05785914000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.052677

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711255

DATE COLLECTED: 9 / 27 / 1976

SURFACE ELEVATION (FT.): 693.8 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26264

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.8	PLEISTOCENE		CLAY	18.0	0.0	YELLOW
675.8	PLEISTOCENE		CLAY	49.5	18.0	GRAY
626.3	PLEISTOCENE		SAND & GRAVEL	24.5	67.5	
601.8	CARBONDALE		UNDERCLAY	1.6	92.0	
600.2	CARBONDALE		LIMESTONE	1.6	93.6	
598.6	CARBONDALE		GRAY SHALE	4.8	95.2	

MAPID: 05785915000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.053296

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711167

DATE COLLECTED: 9 / 28 / 1976

SURFACE ELEVATION (FT.): 701.7 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26265

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.7	PLEISTOCENE		CLAY	25.0	0.0	YELLOW
676.7	PLEISTOCENE		CLAY	66.3	25.0	GRAY
610.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	91.3	
609.6	CARBONDALE	SPRINGFIELD	COAL	3.8	92.1	
605.8	CARBONDALE		SHALE/UNDERCLAY	4.1	95.9	

MAPID: 05785916000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.052929

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711546

DATE COLLECTED: 9 / 28 / 1976

SURFACE ELEVATION (FT.): 699.7 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26266

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
699.7	PLEISTOCENE		CLAY	29.0	0.0	YELLOW
670.7	PLEISTOCENE		CLAY	30.0	29.0	GRAY
640.7	PLEISTOCENE		SAND & GRAVEL	8.0	59.0	
632.7	PLEISTOCENE		CLAY	30.8	67.0	
601.9	CARBONDALE		UNDERCLAY	1.6	97.8	
600.3	CARBONDALE		LIMESTONE	1.4	99.4	
598.9	CARBONDALE		GRAY SHALE	4.2	100.8	

MAPID: 05785917000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.053443

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711464

DATE COLLECTED: 9 / 28 / 1970

SURFACE ELEVATION (FT.): 702.6 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26267

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.6	PLEISTOCENE		CLAY	24.0	0.0	YELLOW
678.6	PLEISTOCENE		CLAY	78.5	24.0	GRAY
600.1	CARBONDALE		UNDERCLAY	1.7	102.5	
598.4	CARBONDALE		LIMESTONE	2.8	104.2	
595.6	CARBONDALE		GRAY SHALE	8.0	107.0	

MAPID: 05785918000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.054016

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.71145

DATE COLLECTED: 9 / 29 / 1976

SURFACE ELEVATION (FT.): 699.2 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26268

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
699.2	PLEISTOCENE		CLAY	22.0	0.0	YELLOW
677.2	PLEISTOCENE		CLAY	44.5	22.0	GRAY
632.7	CARBONDALE		GRAY SHALE	2.5	66.5	
630.2	CARBONDALE		DARK SHALE	22.2	69.0	
608.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	91.2	
607.6	CARBONDALE	TURNER MINE	DARK SHALE	1.2	91.6	
606.4	CARBONDALE	TURNER MINE	DARK SHALE	0.9	92.8	
605.5	CARBONDALE	SPRINGFIELD	CAVITY	3.5	93.7	
602.0	CARBONDALE		SHALE/UNDERCLAY	2.8	97.2	

MAPID: 05785919000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.053689

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711813

DATE COLLECTED: 9 / 29 / 1976

SURFACE ELEVATION (FT.): 703.7 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26269

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.7	PLEISTOCENE		CLAY	25.0	0.0	YELLOW
678.7	PLEISTOCENE		CLAY	53.7	25.0	GRAY
625.0	PLEISTOCENE		SAND & GRAVEL	19.6	78.7	
605.4	CARBONDALE	SPRINGFIELD	COAL	3.7	98.3	TOP ERODED
601.7	CARBONDALE		UNDERCLAY	3.0	102.0	

MAPID: 0578592000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.053174

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711818

DATE COLLECTED: 9 / 30 / 1976

SURFACE ELEVATION (FT.): 703.0 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26270

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.0	PLEISTOCENE		CLAY	33.5	0.0	YELLOW
669.5	PLEISTOCENE		CLAY	46.7	33.5	GRAY
622.8	PLEISTOCENE		SAND & GRAVEL	17.7	80.2	
605.1	CARBONDALE	SPRINGFIELD	COAL	2.1	97.9	
603.0	CARBONDALE		SHALE/UNDERCLAY	5.0	100.0	

MAPID: 05785921000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.052941

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712173

DATE COLLECTED: 10 / 1 / 1976

SURFACE ELEVATION (FT.): 703.9 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26272

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.9	PLEISTOCENE		CLAY	28.5	0.0	YELLOW
675.4	PLEISTOCENE		CLAY	70.7	28.5	GRAY
604.7	CARBONDALE	SPRINGFIELD	COAL	0.4	99.2	TOP ERODED
604.3	CARBONDALE		SHALE/UNDERCLAY	5.4	99.6	

MAPID: 05785922000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.053543

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712156

DATE COLLECTED: 10 / 1 / 1976

SURFACE ELEVATION (FT.): 703.2 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26273

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.2	PLEISTOCENE		CLAY	32.0	0.0	YELLOW
671.2	PLEISTOCENE		CLAY	42.7	32.0	GRAY
628.5	PLEISTOCENE		SAND & GRAVEL	23.5	74.7	
605.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	98.2	
604.2	CARBONDALE	SPRINGFIELD	COAL	3.8	99.0	
600.4	CARBONDALE		UNDERCLAY	2.2	102.8	

MAPID: 05785923000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.05318

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.71253

DATE COLLECTED: 10 / 1 / 1976

SURFACE ELEVATION (FT.): 702.3 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26274

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
702.3	PLEISTOCENE		CLAY	27.2	0.0	YELLOW
675.1	PLEISTOCENE		CLAY	74.3	27.2	GRAY
600.8	CARBONDALE		SHALE/UNDERCLAY	3.5	101.5	

MAPID: 05785924000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.05372

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712486

DATE COLLECTED: 9 / 4 / 1976

SURFACE ELEVATION (FT.): 701.6 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26275

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
701.6	PLEISTOCENE		CLAY	27.2	0.0	YELLOW
674.4	PLEISTOCENE		CLAY	67.8	27.2	GRAY
606.6	CARBONDALE	ST. DAVID	LIMESTONE	0.6	95.0	
606.0	CARBONDALE	TURNER MINE	DARK SHALE	2.6	95.6	
603.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	98.2	
602.2	CARBONDALE	SPRINGFIELD	COAL	3.7	99.4	
598.5	CARBONDALE		UNDERCLAY	1.9	103.1	

MAPID: 05785925000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.053465

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712819

DATE COLLECTED: 10 / 4 / 1976

SURFACE ELEVATION (FT.): 701.1 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26276

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
701.1	PLEISTOCENE		CLAY	26.5	0.0	YELLOW
674.6	PLEISTOCENE		CLAY	76.5	26.5	GRAY
598.1	CARBONDALE		UNDERCLAY	2.0	103.0	

MAPID: 05785929000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.051952

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712746

DATE COLLECTED: 10 / 8 / 1976

SURFACE ELEVATION (FT.): 702.8 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26281

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.8	PLEISTOCENE		CLAY	29.0	0.0	YELLOW
673.8	PLEISTOCENE		CLAY	64.5	29.0	GRAY
609.3	PLEISTOCENE		SAND & GRAVEL	10.2	93.5	
599.1	CARBONDALE		UNDERCLAY	1.3	103.7	

MAPID: 05785930000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.051484

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712676

DATE COLLECTED: 10 / 8 / 1976

SURFACE ELEVATION (FT.): 701.7 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26282

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.7	PLEISTOCENE		CLAY	29.0	0.0	
672.7	PLEISTOCENE		CLAY & GRAVEL	72.8	29.0	
599.9	CARBONDALE		SHALE/UNDERCLAY	3.2	101.8	

MAPID: 05785931000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.050937

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712736

DATE COLLECTED: 10 / 11 / 1976

SURFACE ELEVATION (FT.): 698.2 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26284

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.2	PLEISTOCENE		CLAY	24.0	0.0	
674.2	PLEISTOCENE		CLAY & GRAVEL	73.0	24.0	
601.2	CARBONDALE		LIMESTONE	1.9	97.0	
599.3	CARBONDALE		SHALE/UNDERCLAY	6.1	98.9	

MAPID: 05785932000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.050434

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712813

DATE COLLECTED: 10 / 11 / 1976

SURFACE ELEVATION (FT.): 701.9 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26285

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.9	PLEISTOCENE		CLAY	30.0	0.0	YELLOW
671.9	PLEISTOCENE		CLAY	69.1	30.0	GRAY
602.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	99.1	
602.2	CARBONDALE	SPRINGFIELD	COAL	2.5	99.7	
599.7	CARBONDALE		UNDERCLAY	2.8	102.2	

MAPID: 05785933000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.050594

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712468

DATE COLLECTED: 10 / 11 / 1976

SURFACE ELEVATION (FT.): 701.2 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26286

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.2	PLEISTOCENE		CLAY	25.5	0.0	
675.7	PLEISTOCENE		CLAY & GRAVEL	76.8	25.5	
598.9	CARBONDALE		UNDERCLAY	2.7	102.3	

MAPID: 05785934000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.050098

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712498

DATE COLLECTED: 10 / 12 / 1976

SURFACE ELEVATION (FT.): 699.5 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26287

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
699.5	PLEISTOCENE		CLAY	30.2	0.0	YELLOW
669.3	PLEISTOCENE		CLAY	61.3	30.2	GRAY
608.0	PLEISTOCENE		SAND & GRAVEL	10.3	91.5	
597.7	CARBONDALE		UNDERCLAY	3.2	101.8	

MAPID: 05785935000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.049361

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712837

DATE COLLECTED: 10 / 13 / 1976

SURFACE ELEVATION (FT.): 696.5 LOGGED (FT.): 95.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26290

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.5	PLEISTOCENE		CLAY	26.0	0.0	
670.5	PLEISTOCENE		CLAY & GRAVEL	61.2	26.0	
609.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	87.2	
607.8	CARBONDALE	SPRINGFIELD	COAL	3.9	88.7	
603.9	CARBONDALE		UNDERCLAY	2.4	92.6	

MAPID: 05785936000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.049144

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712466

DATE COLLECTED: 10 / 14 / 1976

SURFACE ELEVATION (FT.): 692.5 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26291

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
692.5	PLEISTOCENE		CLAY	19.5	0.0	YELLOW
673.0	PLEISTOCENE		CLAY	65.1	19.5	GRAY
607.9	CARBONDALE		SHALE/UNDERCLAY	5.4	84.6	

MAPID: 05785937000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.048805

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712749

DATE COLLECTED: 10 / 14 / 1976

SURFACE ELEVATION (FT.): 697.5 LOGGED (FT.): 96.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26292

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.5	PLEISTOCENE		CLAY	25.0	0.0	
672.5	PLEISTOCENE		CLAY & GRAVEL	64.7	25.0	
607.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	89.7	
607.1	CARBONDALE	SPRINGFIELD	COAL	3.6	90.4	
603.5	CARBONDALE		UNDERCLAY	2.0	94.0	

MAPID: 05785938000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.048359

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712635

DATE COLLECTED: 10 / 18 / 1976

SURFACE ELEVATION (FT.): 698.6 LOGGED (FT.): 95.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26294

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.6	PLEISTOCENE		CLAY	22.5	0.0	
676.1	PLEISTOCENE		CLAY & GRAVEL	67.4	22.5	
608.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.4	89.9	
608.3	CARBONDALE	SPRINGFIELD	COAL	1.2	90.3	
607.1	CARBONDALE		SHALE/UNDERCLAY	3.5	91.5	

MAPID: 05785939000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.047869

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712593

DATE COLLECTED: 10 / 19 / 1976

SURFACE ELEVATION (FT.): 697.7 LOGGED (FT.): 95.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26296

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.7	PLEISTOCENE		CLAY	25.0	0.0	YELLOW
672.7	PLEISTOCENE		CLAY	35.0	25.0	GRAY
637.7	CARBONDALE		DARK SHALE	24.4	60.0	
613.3	CARBONDALE	ST. DAVID	LIMESTONE	0.4	84.4	
612.9	CARBONDALE	TURNER MINE	DARK SHALE	1.9	84.8	
611.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	86.7	
609.9	CARBONDALE	SPRINGFIELD	COAL	4.0	87.8	
605.9	CARBONDALE		SHALE/UNDERCLAY	3.2	91.8	

MAPID: 05785940000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.048123

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712239

DATE COLLECTED: 10 / 20 / 1976

SURFACE ELEVATION (FT.): 694.3 LOGGED (FT.): 95.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26297

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.3	PLEISTOCENE		CLAY	22.5	0.0	
671.8	PLEISTOCENE		CLAY & GRAVEL	69.1	22.5	
602.7	CARBONDALE		SHALE/UNDERCLAY	3.4	91.6	

MAPID: 05785941000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.047562

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712244

DATE COLLECTED: 10 / 20 / 1976

SURFACE ELEVATION (FT.): 688.5 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26298

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.5	PLEISTOCENE		CLAY	13.0	0.0	YELLOW
675.5	PLEISTOCENE		CLAY	42.0	13.0	GRAY
633.5	PLEISTOCENE		CLAY	14.3	55.0	GRAY
619.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	69.3	
618.8	CARBONDALE	TURNER MINE	DARK SHALE	2.1	69.7	
616.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	71.8	
615.5	CARBONDALE	SPRINGFIELD	COAL	3.9	73.0	
611.6	CARBONDALE		UNDERCLAY	3.1	76.9	

MAPID: 05785942000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.047693

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.71194

DATE COLLECTED: 10 / 20 / 1976

SURFACE ELEVATION (FT.): 691.8 LOGGED (FT.): 81.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26299

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
691.8	PLEISTOCENE		CLAY	22.0	0.0
669.8	PLEISTOCENE		CLAY & GRAVEL	40.5	22.0
629.3	CARBONDALE		DARK SHALE	10.5	62.5
618.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	73.0
618.4	CARBONDALE	TURNER MINE	DARK SHALE	1.9	73.4
616.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	75.3
615.4	CARBONDALE	SPRINGFIELD	COAL	3.5	76.4
611.9	CARBONDALE		UNDERCLAY	1.1	79.9

MAPID: 05785943000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.048196

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711767

DATE COLLECTED: 10 / 21 / 1976

SURFACE ELEVATION (FT.): 693.6 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26400

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
693.6	PLEISTOCENE		CLAY	23.0	0.0
670.6	PLEISTOCENE		CLAY & GRAVEL	67.0	23.0

MAPID: 05785944000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.047762

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.71149

DATE COLLECTED: 10 / 21 / 1976

SURFACE ELEVATION (FT.): 665.1 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26401

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.1	PLEISTOCENE		CLAY	10.0	0.0	YELLOW
655.1	PLEISTOCENE		CLAY	41.0	10.0	GRAY
614.1	CARBONDALE	SPRINGFIELD	COAL	1.0	51.0	BROKEN; TOP ERODED
613.1	CARBONDALE	SPRINGFIELD	COAL	1.1	52.0	
612.0	CARBONDALE		UNDERCLAY	6.9	53.1	

MAPID: 05785945000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.044866

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711592

DATE COLLECTED: 11 / 31 / 1976

SURFACE ELEVATION (FT.): 696.2 LOGGED (FT.): 83.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26448

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.2	PLEISTOCENE		CLAY	19.5	0.0	YELLOW
676.7	PLEISTOCENE		CLAY	33.7	19.5	GRAY
643.0	CARBONDALE		GRAY SHALE	21.4	53.2	
621.6	CARBONDALE	ST. DAVID	LIMESTONE	0.4	74.6	
621.2	CARBONDALE	TURNER MINE	DARK SHALE	1.6	75.0	
619.6	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	76.6	
618.7	CARBONDALE	SPRINGFIELD	COAL	3.5	77.5	
615.2	CARBONDALE		UNDERCLAY	2.0	81.0	

MAPID: 05785946000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.045392

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711661

DATE COLLECTED: 11 / 30 / 1976

SURFACE ELEVATION (FT.): 693.2 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26449

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.2	PLEISTOCENE		CLAY	12.5	0.0	YELLOW
680.7	PLEISTOCENE		CLAY	36.0	12.5	GRAY
644.7	CARBONDALE		GRAY SHALE	6.5	48.5	
638.2	CARBONDALE		DARK SHALE	9.8	55.0	
628.4	CARBONDALE	ST. DAVID	LIMESTONE	0.4	64.8	
628.0	CARBONDALE	TURNER MINE	DARK SHALE	2.3	65.2	
625.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	67.5	
624.5	CARBONDALE	SPRINGFIELD	COAL	3.4	68.7	
621.1	CARBONDALE		UNDERCLAY	2.9	72.1	

MAPID: 05785947000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.04784 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711277 DATE COLLECTED: 12 / 1 / 1976

SURFACE ELEVATION (FT.): 665.1 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26451 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.1	PLEISTOCENE		CLAY	8.5	0.0	
656.6	PLEISTOCENE		UNCONSOLIDATED	50.9	8.5	
605.7	CARBONDALE		SHALE/UNDERCLAY	5.6	59.4	

MAPID: 05785948000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.047194 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711576 DATE COLLECTED: 12 / 1 / 1976

SURFACE ELEVATION (FT.): 667.6 LOGGED (FT.): 56.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26453 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.6	PLEISTOCENE		CLAY	11.0	0.0	
656.6	PLEISTOCENE		CLAY & GRAVEL	34.8	11.0	
621.8	CARBONDALE	TURNER MINE	DARK SHALE	2.1	45.8	
619.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	47.9	
618.6	CARBONDALE	SPRINGFIELD	COAL	2.0	49.0	BROKEN
616.6	CARBONDALE	SPRINGFIELD	COAL	1.5	51.0	
615.1	CARBONDALE		SHALE/UNDERCLAY	3.5	52.5	

MAPID: 05785949000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.046243 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.71107 DATE COLLECTED: 12 / 6 / 1976

SURFACE ELEVATION (FT.): 700.2 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26457 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.2	PLEISTOCENE		CLAY	26.5	0.0	YELLOW
673.7	PLEISTOCENE		CLAY	52.1	26.5	GRAY
621.6	CARBONDALE	SPRINGFIELD	COAL	1.0	78.6	TOP ERODED
620.6	CARBONDALE		UNDERCLAY	1.4	79.6	

MAPID: 0578595000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.045967

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711405

DATE COLLECTED: 12 / 6 / 1976

SURFACE ELEVATION (FT.): 696.6 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26458

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.6	PLEISTOCENE		CLAY	24.5	0.0	YELLOW
672.1	PLEISTOCENE		CLAY	37.5	24.5	GRAY
634.6	CARBONDALE		DARK SHALE	8.8	62.0	
625.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	70.8	
625.4	CARBONDALE	TURNER MINE	DARK SHALE	1.9	71.2	
623.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	73.1	
622.6	CARBONDALE	SPRINGFIELD	COAL	3.8	74.0	
618.8	CARBONDALE		UNDERCLAY	2.2	77.8	

MAPID: 05785951000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.045816

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711111

DATE COLLECTED: 12 / 6 / 1976

SURFACE ELEVATION (FT.): 700.1 LOGGED (FT.): 82.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26459

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.1	PLEISTOCENE		CLAY	27.0	0.0	YELLOW
673.1	PLEISTOCENE		CLAY	40.0	27.0	GRAY
633.1	CARBONDALE		DARK SHALE	5.1	67.0	
628.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	72.1	
627.6	CARBONDALE	TURNER MINE	DARK SHALE	2.7	72.5	
624.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	75.2	
623.7	CARBONDALE	SPRINGFIELD	COAL	3.5	76.4	
620.2	CARBONDALE		UNDERCLAY	2.1	79.9	

MAPID: 05785952000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.045567

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.710849

DATE COLLECTED: 12 / 8 / 1976

SURFACE ELEVATION (FT.): 700.7 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26461

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.7	PLEISTOCENE		CLAY	27.0	0.0	
673.7	PLEISTOCENE		UNCONSOLIDATED	63.0	27.0	

MAPID: 05785953000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 4 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.052671

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711873

DATE COLLECTED: 9 / 30 / 1976

SURFACE ELEVATION (FT.): 703.5 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26271

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 19

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.5	PLEISTOCENE		CLAY	27.5	0.0	YELO
676.0	PLEISTOCENE		CLAY	53.5	27.5	GRAY
622.5	PLEISTOCENE		SAND & GRAVEL	19.4	81.0	
603.1	CARBONDALE		UNDERCLAY	1.7	100.4	
601.4	CARBONDALE		GRAY SHALE	2.9	102.1	

MAPID: 05760051000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 5 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NW SW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.079644

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.705734

DATE COLLECTED: 12 / 11 / 1928

SURFACE ELEVATION (FT.): 715.0 LOGGED (FT.): 42.3

LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CO.

WELL TYPE: Coal Test

COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.9	CARBONDALE	SPRINGFIELD	COAL	5.2	37.1	

MAPID: 05760052000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 4E **SECTION:** 5 **QUARTERS/FOOTAGES:**
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.072505 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.705691 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 710.0 **LOGGED (FT.):** 42.1 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.5	CARBONDALE	SPRINGFIELD	COAL	4.6	37.5	

MAPID: 05760053000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 4E **SECTION:** 5 **QUARTERS/FOOTAGES:** 90' S line, 300' W line of SE
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.071589 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.698716 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 700.0 **LOGGED (FT.):** 36.0 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.9	CARBONDALE	SPRINGFIELD	COAL	4.9	31.1	

MAPID: 05760055000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 4E **SECTION:** 5 **QUARTERS/FOOTAGES:** 450' S line, 72' W line of SW
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.081914 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.699808 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 715.0 **LOGGED (FT.):** 24.7 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.5	CARBONDALE	SPRINGFIELD	COAL	3.2	21.5	

MAPID: 05760064000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 4E **SECTION:** 5 **QUARTERS/FOOTAGES:** 0' N line, 0' E line of NW SE SE
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.06545 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.702028 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 700.0 **LOGGED (FT.):** 36.2 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.8	CARBONDALE	SPRINGFIELD	COAL	5.0	31.2	

MAPID: 05760067000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 5 QUARTERS/FOOTAGES: 0' S line, 90' E line of NW NE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.067985 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.709274 DATE COLLECTED: 12 / 11 / 1928

SURFACE ELEVATION (FT.): 710.0 LOGGED (FT.): 47.6 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.2	CARBONDALE	SPRINGFIELD	COAL	2.8	44.8	

MAPID: 05785823000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 5 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.07712 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.706527 DATE COLLECTED: 6 / 23 / 1975

SURFACE ELEVATION (FT.): 716.5 LOGGED (FT.): 110.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22963 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
716.5	PLEISTOCENE		CLAY	25.0	0.0	
691.5	CARBONDALE		GRAY SHALE	16.0	25.0	
675.5	CARBONDALE	BRERETON	LIMESTONE	0.9	41.0	
674.6	CARBONDALE	ANNA	BLACK SHALE	1.1	41.9	
673.5	CARBONDALE		CLAYSTONE	0.3	43.0	WHITE TOP
673.2	CARBONDALE	HERRIN	COAL	1.7	43.3	
671.5	CARBONDALE	HERRIN	BLUE BAND	0.2	45.0	
671.3	CARBONDALE	HERRIN	COAL	1.7	45.2	
669.6	CARBONDALE		UNDERCLAY	2.1	46.9	
667.5	CARBONDALE		SANDSTONE	15.5	49.0	
652.0	CARBONDALE		SHALE & SANDSTONE	16.5	64.5	
635.5	CARBONDALE		DARK SHALE	15.8	81.0	
619.7	CARBONDALE		LIMESTONE	0.2	96.8	
619.5	CARBONDALE		DARK SHALE	5.4	97.0	
614.1	CARBONDALE	ST. DAVID	LIMESTONE	0.3	102.4	
613.8	CARBONDALE	TURNER MINE	DARK SHALE	1.3	102.7	
612.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	104.0	
611.5	CARBONDALE	SPRINGFIELD	COAL	3.6	105.0	
607.9	CARBONDALE		UNDERCLAY	1.4	108.6	

MAPID: 05785827000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 5 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.074883

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.706535

DATE COLLECTED: 6 / 23 / 1975

SURFACE ELEVATION (FT.): 714.3 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23219

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.3	PLEISTOCENE		CLAY	25.5	0.0	
688.8	CARBONDALE		GRAY SHALE	12.1	25.5	
676.7	CARBONDALE	BRERETON	LIMESTONE	5.1	37.6	
671.6	CARBONDALE		CLAYSTONE	1.0	42.7	WHITE TOP
670.6	CARBONDALE	HERRIN	COAL	3.9	43.7	
666.7	CARBONDALE		UNDERCLAY	1.4	47.6	
665.3	CARBONDALE		GRAY SANDSTONE	35.5	49.0	
629.8	CARBONDALE		DARK SHALE	17.2	84.5	
612.6	CARBONDALE	ST. DAVID	LIMESTONE	0.4	101.7	
612.2	CARBONDALE	TURNER MINE	DARK SHALE	1.4	102.1	
610.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	103.5	
609.4	CARBONDALE	SPRINGFIELD	COAL	4.1	104.9	
605.3	CARBONDALE		UNDERCLAY	1.0	109.0	

MAPID: 05785832000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 5 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.081597

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712969

DATE COLLECTED: 7 / 28 / 1975

SURFACE ELEVATION (FT.): 704.1 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23310

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
704.1	PLEISTOCENE		CLAY & GRAVEL	27.0	0.0	YELLOW
677.1	PLEISTOCENE		CLAY & GRAVEL	46.5	27.0	GRAY
630.6	CARBONDALE		DARK SHALE	15.0	73.5	
615.6	CARBONDALE	ST. DAVID	LIMESTONE	0.5	88.5	
615.1	CARBONDALE	TURNER MINE	DARK SHALE	1.5	89.0	
613.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	90.5	
612.1	CARBONDALE	SPRINGFIELD	COAL	3.5	92.0	
608.6	CARBONDALE		UNDERCLAY	2.0	95.5	
606.6	CARBONDALE		GRAY SHALE	2.5	97.5	

MAPID: 05785834000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 5 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.079524

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.706571

DATE COLLECTED: 6 / 23 / 1975

SURFACE ELEVATION (FT.): 718.5 LOGGED (FT.): 112.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23407

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.5	PLEISTOCENE		SOIL	1.0	0.0	
717.5	PLEISTOCENE		CLAY	33.0	1.0	
684.5	SHELBURN		GRAY SHALE	6.0	34.0	
678.5	SHELBURN		SANDSTONE	4.0	40.0	
674.5	SHELBURN		GRAY SHALE	2.0	44.0	
672.5	CARBONDALE	HERRIN	COAL	1.7	46.0	
670.8	CARBONDALE	HERRIN	BLUE BAND	0.2	47.7	
670.6	CARBONDALE	HERRIN	COAL	1.1	47.9	
669.5	CARBONDALE		UNDERCLAY	2.0	49.0	
667.5	CARBONDALE		GRAY SHALE	3.0	51.0	
664.5	CARBONDALE		SANDSTONE	6.0	54.0	SOFT
658.5	CARBONDALE		CALCAREOUS SHALE	14.0	60.0	
644.5	CARBONDALE		SANDSTONE	14.0	74.0	
630.5	CARBONDALE		DARK SHALE	15.7	88.0	
614.8	CARBONDALE	ST. DAVID	LIMESTONE	0.3	103.7	
614.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	104.0	
612.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	105.8	
611.6	CARBONDALE	SPRINGFIELD	COAL	3.3	106.9	
608.3	CARBONDALE		UNDERCLAY	1.8	110.2	

MAPID: 05785838000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 5 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.080704

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711147

DATE COLLECTED: 8 / 2 / 1976

SURFACE ELEVATION (FT.): 721.6 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25483

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.6	PLEISTOCENE		UNKNOWN	56.9	0.0	SPOIL
664.7	CARBONDALE		SHALE	2.8	56.9	
661.9	CARBONDALE		SANDSTONE	7.1	59.7	
654.8	CARBONDALE		SHALE	11.7	66.8	
643.1	CARBONDALE		SHALE & SANDSTONE	13.5	78.5	
629.6	CARBONDALE		SHALE	16.8	92.0	
612.8	CARBONDALE	ST. DAVID	LIMESTONE	0.6	108.8	
612.2	CARBONDALE	TURNER MINE	SHALE	2.5	109.4	
609.7	CARBONDALE	SPRINGFIELD	COAL	3.6	111.9	
606.1	CARBONDALE		SHALE/UNDERCLAY	4.5	115.5	

MAPID: 05785890000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 5 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.068912

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711805

DATE COLLECTED: 7 / 16 / 1975

SURFACE ELEVATION (FT.): 708.4 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22988

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
708.4	PLEISTOCENE		SANDY CLAY	19.5	0.0	
688.9	PLEISTOCENE		CLAY & GRAVEL	26.0	19.5	
662.9	PLEISTOCENE		CLAY, SAND & GRAVEL	27.5	45.5	
635.4	CARBONDALE		SANDSTONE	7.6	73.0	
627.8	CARBONDALE		DARK SHALE	18.4	80.6	
609.4	CARBONDALE	ST. DAVID	LIMESTONE	0.5	99.0	
608.9	CARBONDALE	TURNER MINE	DARK SHALE	2.5	99.5	
606.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	102.0	
604.9	CARBONDALE	SPRINGFIELD	COAL	3.5	103.5	
601.4	CARBONDALE		UNDERCLAY	1.8	107.0	
599.6	CARBONDALE		GRAY SHALE	1.2	108.8	

MAPID: 05785891000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 5 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.067316

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.71122

DATE COLLECTED: 8 / 19 / 1976

SURFACE ELEVATION (FT.): 707.9 LOGGED (FT.): 117.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25594

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
707.9	PLEISTOCENE		SOIL	1.0	0.0	
706.9	PLEISTOCENE		CLAY	29.0	1.0	
677.9	PLEISTOCENE		CLAY, SAND & GRAVEL	50.0	30.0	
627.9	CARBONDALE		SANDSTONE	28.4	80.0	
599.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	108.4	
599.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	108.8	
597.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	110.6	
596.4	CARBONDALE	SPRINGFIELD	COAL	3.5	111.5	
592.9	CARBONDALE		SHALE/UNDERCLAY	2.0	115.0	

MAPID: 05785892000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 5 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.066657

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.710445

DATE COLLECTED: 8 / 23 / 1976

SURFACE ELEVATION (FT.): 719.8 LOGGED (FT.): 123.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25597

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.8	PLEISTOCENE		UNKNOWN	80.0	0.0	SPOIL
639.8	PLEISTOCENE		CLAY, SAND & GRAVEL	10.0	80.0	
629.8	CARBONDALE		SANDSTONE	23.5	90.0	
606.3	CARBONDALE	ST. DAVID	LIMESTONE	0.6	113.5	
605.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	114.1	
603.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	116.0	
603.1	CARBONDALE	SPRINGFIELD	COAL	3.8	116.7	
599.3	CARBONDALE		SHALE/UNDERCLAY	2.5	120.5	

MAPID: 05785893000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 5 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.065534

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.710533

DATE COLLECTED: 8 / 19 / 1976

SURFACE ELEVATION (FT.): 711.6 LOGGED (FT.): 119.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25904

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
711.6	PLEISTOCENE		SANDY CLAY	23.0	0.0
688.6	PLEISTOCENE		BOULDER	1.0	23.0
687.6	PLEISTOCENE		CLAY & GRAVEL	34.5	24.0
653.1	CARBONDALE		SANDSTONE	8.1	58.5
645.0	CARBONDALE		GRAY SHALE	8.4	66.6
636.6	CARBONDALE		SANDSTONE	11.0	75.0
625.6	CARBONDALE		DARK SHALE	23.0	86.0
602.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	109.0
601.2	CARBONDALE	SPRINGFIELD	COAL	3.4	110.4
597.8	CARBONDALE		UNDERCLAY	2.2	113.8
595.6	CARBONDALE		GRAY SHALE	3.0	116.0

MAPID: 05785894000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 5 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.06819

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711296

DATE COLLECTED: 8 / 20 / 1976

SURFACE ELEVATION (FT.): 710.0 LOGGED (FT.): 120.5

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25905

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
710.0	PLEISTOCENE		SANDY CLAY	30.0	0.0
680.0	PLEISTOCENE		CLAY & GRAVEL	24.5	30.0
655.5	CARBONDALE		GRAY SHALE	12.5	54.5
643.0	CARBONDALE		LIMESTONE	2.0	67.0
641.0	CARBONDALE		GRAY SHALE	19.7	69.0
621.3	CARBONDALE		DARK SHALE	21.1	88.7
600.2	CARBONDALE	ST. DAVID	LIMESTONE	0.5	109.8
599.7	CARBONDALE	TURNER MINE	DARK SHALE	1.7	110.3
598.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	112.0
596.5	CARBONDALE	SPRINGFIELD	COAL	3.3	113.5
593.2	CARBONDALE		UNDERCLAY	2.2	116.8
591.0	CARBONDALE		GRAY SHALE	1.5	119.0

MAPID: 05785895000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 5 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.064945

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709029

DATE COLLECTED: 8 / 19 / 1976

SURFACE ELEVATION (FT.): 709.5 LOGGED (FT.): 112.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 26103

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 18

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
709.5	PLEISTOCENE		UNCONSOLIDATED	56.6	0.0
652.9	CARBONDALE		SHALE	14.2	56.6
638.7	CARBONDALE		SANDSTONE	17.8	70.8
620.9	CARBONDALE		SHALE	14.9	88.6
606.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	103.5
605.6	CARBONDALE	TURNER MINE	SHALE	2.9	103.9
602.7	CARBONDALE	SPRINGFIELD	COAL	3.5	106.8
599.2	CARBONDALE		UNDERCLAY	1.7	110.3

MAPID: 05700831000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES: 1340' S line, 150' E line

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.08266 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.702241 DATE COLLECTED: 0 / 0 / 1937

SURFACE ELEVATION (FT.): 726.0 LOGGED (FT.): 1601.0 LOG TYPE: Drillers Log

SOURCE: THORPE WELL CO. WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.0			UNCONSOLIDATED	32.0	0.0	
694.0	CARBONDALE		GRAY SHALE	15.0	32.0	
679.0	CARBONDALE	HERRIN	COAL	2.0	47.0	
677.0	CARBONDALE		GRAY SHALE	21.0	49.0	
656.0	CARBONDALE		LIMESTONE	20.0	70.0	GRAY
636.0	CARBONDALE		SHALE	11.0	90.0	BLUE
625.0	CARBONDALE	ST. DAVID	LIMESTONE W/ SHALE	6.0	101.0	SH,BK,FIS
619.0	CARBONDALE	SPRINGFIELD	COAL	4.0	107.0	
615.0	CARBONDALE		UNDERCLAY	6.0	111.0	
609.0	CARBONDALE		GRAY SHALE	14.0	117.0	
595.0			LIMESTONE	27.0	131.0	GRAY
568.0			SHALE	75.0	158.0	GY, DK IN LWR 1/2.
493.0			LIMESTONE	3.0	233.0	
490.0			SHALE	62.0	236.0	GY UPR 1.2, BL LWR 1/2
428.0			LIMESTONE	4.0	298.0	GRAY
424.0			BLACK SHALE	15.0	302.0	
409.0			SHALE	16.0	317.0	GY,SDY
393.0			BLACK SHALE	16.0	333.0	BS PENNSYLVANIAN; BK
377.0			ROCK	1252.0	349.0	MISSISSIPPIAN

MAPID: 05760046000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.091423 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.705798 DATE COLLECTED: 12 / 11 / 1928

SURFACE ELEVATION (FT.): 710.0 LOGGED (FT.): 41.0 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
673.1	CARBONDALE	SPRINGFIELD	COAL	4.1	36.9	

MAPID: 05760047000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 4E **SECTION:** 6 **QUARTERS/FOOTAGES:** 180' N line, 180' E line of NE NW
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.091951 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.712505 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 700.0 **LOGGED (FT.):** 32.3 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
673.2	CARBONDALE	SPRINGFIELD	COAL	5.4	26.8	

MAPID: 05760048000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 4E **SECTION:** 6 **QUARTERS/FOOTAGES:** 180' N line, 0' E line of SW NW
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.096076 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.708934 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 718.0 **LOGGED (FT.):** 47.2 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.8	CARBONDALE	SPRINGFIELD	COAL	5.0	42.2	

MAPID: 05760049000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 4E **SECTION:** 6 **QUARTERS/FOOTAGES:** 250' N line, 0' W line of NE NE SE
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.084391 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.705063 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 721.0 **LOGGED (FT.):** 43.6 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.5	CARBONDALE	SPRINGFIELD	COAL	3.1	40.5	

MAPID: 05760050000C **VERSION:** 1 **PROJECT:** CBT-FULTON
COUNTY: FULTON **TWP/RNG:** 8N 4E **SECTION:** 6 **QUARTERS/FOOTAGES:** 0' S line, 0' W line of NW SE
QUADRANGLE: FARMINGTON WEST **LONGITUDE:** -90.09149 **GEOLOGIST:** TRASK,CB
CONFIDENTIAL: N **LATITUDE:** 40.702197 **DATE COLLECTED:** 12 / 11 / 1928
SURFACE ELEVATION (FT.): 725.0 **LOGGED (FT.):** 47.0 **LOG TYPE:** Drillers Log
SOURCE: STONEFORT COAL CO. **WELL TYPE:** Coal Test
COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.2	CARBONDALE	SPRINGFIELD	COAL	5.3	41.8	

MAPID: 05785824000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.084375

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.70666

DATE COLLECTED: 6 / 24 / 1975

SURFACE ELEVATION (FT.): 717.3 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22964

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
717.3	PLEISTOCENE		CLAY & GRAVEL	26.0	0.0
691.3	CARBONDALE		SANDY SHALE	7.5	26.0
683.8	CARBONDALE		GRAY SHALE	6.5	33.5
677.3	CARBONDALE	BRERETON	LIMESTONE	1.0	40.0
676.3	CARBONDALE	HERRIN	COAL	2.5	41.0
673.8	CARBONDALE	HERRIN	BLUE BAND	0.2	43.5
673.6	CARBONDALE	HERRIN	COAL	1.7	43.7
671.9	CARBONDALE		UNDERCLAY	1.6	45.4
670.3	CARBONDALE		GRAY SHALE	4.2	47.0
666.1	CARBONDALE		SANDSTONE/SHALE	38.8	51.2
627.3	CARBONDALE		DARK SHALE	10.0	90.0
617.3	CARBONDALE	ST. DAVID	LIMESTONE	0.3	100.0
617.0	CARBONDALE	TURNER MINE	DARK SHALE	0.7	100.3
616.3	CARBONDALE	TURNER MINE	DARK SHALE	2.0	101.0
614.3	CARBONDALE	SPRINGFIELD	COAL	3.6	103.0
610.7	CARBONDALE		UNDERCLAY	1.8	106.6
608.9	CARBONDALE		GRAY SHALE	1.6	108.4

MAPID: 05785825000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.084887

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712763

DATE COLLECTED: 7 / 28 / 1975

SURFACE ELEVATION (FT.): 701.6 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23037

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
701.6	PLEISTOCENE		CLAY	37.0	0.0	
664.6	SHELBURN		SHALE	2.7	37.0	
661.9	CARBONDALE	HERRIN	COAL	2.2	39.7	
659.7	CARBONDALE	HERRIN	BLUE BAND	0.2	41.9	
659.5	CARBONDALE	HERRIN	COAL	1.7	42.1	
657.8	CARBONDALE		UNDERCLAY	1.5	43.8	
656.3	CARBONDALE		SHALE	2.8	45.3	
653.5	CARBONDALE		SANDSTONE	4.2	48.1	
649.3	CARBONDALE		SHALE	17.7	52.3	WITH ROCK
631.6	CARBONDALE		SHALE & SANDSTONE	7.6	70.0	
624.0	CARBONDALE		SANDSTONE	1.9	77.6	
622.1	CARBONDALE		SHALE	20.1	79.5	
602.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	99.6	
601.6	CARBONDALE	TURNER MINE	SHALE	3.3	100.0	
598.3	CARBONDALE	SPRINGFIELD	COAL	3.6	103.3	
594.7	CARBONDALE		SHALE/UNDERCLAY	3.1	106.9	

MAPID: 05785826000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082822

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712936

DATE COLLECTED: 7 / 28 / 1975

SURFACE ELEVATION (FT.): 703.5 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23038

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.5	PLEISTOCENE		UNCONSOLIDATED	60.0	0.0	

MAPID: 05785828000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.081754

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.706659

DATE COLLECTED: 6 / 24 / 1975

SURFACE ELEVATION (FT.): 718.6 LOGGED (FT.): 111.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23220

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
718.6	PLEISTOCENE		UNCONSOLIDATED	23.6	0.0
695.0	CARBONDALE		GRAY SHALE	16.5	23.6
678.5	CARBONDALE	BRERETON	LIMESTONE	1.1	40.1
677.4	CARBONDALE		CLAYSTONE	2.3	41.2 WHITE TOP
675.1	CARBONDALE	HERRIN	COAL	4.0	43.5
671.1	CARBONDALE		UNDERCLAY	1.5	47.5
669.6	CARBONDALE		SHALE & SANDSTONE	31.0	49.0
638.6	CARBONDALE		GRAY SHALE	23.1	80.0
615.5	CARBONDALE	TURNER MINE	DARK SHALE	1.4	103.1
614.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	104.5
612.6	CARBONDALE	SPRINGFIELD	COAL	3.2	106.0
609.4	CARBONDALE		UNDERCLAY	1.8	109.2

MAPID: 05785829000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.085073

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.707752

DATE COLLECTED: 7 / 25 / 1975

SURFACE ELEVATION (FT.): 713.1 LOGGED (FT.): 103.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23307

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
713.1	PLEISTOCENE		SOIL	25.0	0.0
688.1	CARBONDALE		SANDSTONE	5.0	25.0
683.1	CARBONDALE		GRAY SHALE	4.6	30.0
678.5	CARBONDALE	BRERETON	LIMESTONE	0.4	34.6
678.1	CARBONDALE	ANNA	BLACK SHALE	1.7	35.0
676.4	CARBONDALE	HERRIN	COAL	1.6	36.7
674.8	CARBONDALE	HERRIN	BLUE BAND	0.2	38.3
674.6	CARBONDALE	HERRIN	COAL	1.8	38.5
672.8	CARBONDALE		UNDERCLAY	1.7	40.3
671.1	CARBONDALE		GRAY SHALE	1.7	42.0
669.4	CARBONDALE		SANDSTONE	7.3	43.7
662.1	CARBONDALE		GRAY SHALE	2.4	51.0
659.7	CARBONDALE		LIMESTONE	0.6	53.4
659.1	CARBONDALE		GRAY SHALE	9.4	54.0
649.7	CARBONDALE		SANDSTONE	7.9	63.4
641.8	CARBONDALE		DARK SHALE	23.2	71.3
618.6	CARBONDALE	ST. DAVID	LIMESTONE	0.3	94.5
618.3	CARBONDALE	TURNER MINE	DARK SHALE	1.5	94.8
616.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	96.3
615.5	CARBONDALE	SPRINGFIELD	COAL	3.6	97.6
611.9	CARBONDALE		UNDERCLAY	1.8	101.2

MAPID: 05785830000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.085055

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709435

DATE COLLECTED: 7 / 25 / 1975

SURFACE ELEVATION (FT.): 707.3 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23308

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
707.3	PLEISTOCENE		SOIL	21.8	0.0	
685.5	PLEISTOCENE		CLAY & GRAVEL	42.6	21.8	
642.9	PLEISTOCENE		CLAY	1.0	64.4	& BOULDERS
641.9	CARBONDALE		SANDSTONE	14.1	65.4	
627.8	CARBONDALE		DARK SHALE	17.0	79.5	
610.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	96.5	
610.3	CARBONDALE	TURNER MINE	DARK SHALE	1.6	97.0	
608.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	98.6	
607.4	CARBONDALE	SPRINGFIELD	COAL	3.6	99.9	
603.8	CARBONDALE		UNDERCLAY	1.5	103.5	

MAPID: 05785831000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.085055

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711071

DATE COLLECTED: 7 / 28 / 1975

SURFACE ELEVATION (FT.): 706.6 LOGGED (FT.): 113.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23309

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.6	PLEISTOCENE		SOIL	30.0	0.0	
676.6	PLEISTOCENE		CLAY & GRAVEL	13.2	30.0	
663.4	CARBONDALE		GRAY SHALE	1.6	43.2	
661.8	CARBONDALE	HERRIN	COAL	3.2	44.8	
658.6	CARBONDALE		UNDERCLAY	1.8	48.0	
656.8	CARBONDALE		GRAY SANDSTONE	10.2	49.8	
646.6	CARBONDALE		GRAY SHALE	13.4	60.0	
633.2	CARBONDALE		CALCAREOUS SHALE	15.7	73.4	
617.5	CARBONDALE		DARK SHALE	15.4	89.1	
602.1	CARBONDALE	ST. DAVID	LIMESTONE	0.5	104.5	
601.6	CARBONDALE	TURNER MINE	DARK SHALE	1.0	105.0	
600.6	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	106.0	
599.8	CARBONDALE	SPRINGFIELD	COAL	3.5	106.8	
596.3	CARBONDALE		UNDERCLAY	1.7	110.3	
594.6	CARBONDALE		GRAY SHALE	1.0	112.0	

MAPID: 05785833000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.085059

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.71034

DATE COLLECTED: 7 / 28 / 1975

SURFACE ELEVATION (FT.): 705.8 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23311

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.8	PLEISTOCENE		CLAY & GRAVEL	23.0	0.0	YELLOW
682.8	PLEISTOCENE		CLAY & GRAVEL	29.2	23.0	GRAY
653.6	CARBONDALE		GRAY SHALE	4.3	52.2	
649.3	CARBONDALE		GRAY SANDSTONE	3.5	56.5	

MAPID: 05785835000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.087345

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.706687

DATE COLLECTED: 6 / 24 / 1975

SURFACE ELEVATION (FT.): 714.9 LOGGED (FT.): 98.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23408

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.9	PLEISTOCENE		SOIL	1.0	0.0	
713.9	PLEISTOCENE		CLAY	24.0	1.0	YELLOW
689.9	PLEISTOCENE		CLAY	20.0	25.0	GRAY
669.9	CARBONDALE		GRAY SHALE	11.0	45.0	
658.9	CARBONDALE		SANDSTONE	20.0	56.0	SOFT
638.9	CARBONDALE		DARK SHALE	13.0	76.0	
625.9	CARBONDALE	ST. DAVID	LIMESTONE	0.5	89.0	
625.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	89.5	
624.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	90.8	
623.2	CARBONDALE	SPRINGFIELD	COAL	3.6	91.7	
619.6	CARBONDALE		UNDERCLAY	2.7	95.3	

MAPID: 05785836000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.083896

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.712958

DATE COLLECTED: 7 / 28 / 1975

SURFACE ELEVATION (FT.): 703.0 LOGGED (FT.): 104.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23445

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
703.0	PLEISTOCENE		SOIL	1.0	0.0
702.0	PLEISTOCENE		CLAY	43.6	1.0
658.4	CARBONDALE		SHALE & SANDSTONE	10.2	44.6
648.2	CARBONDALE		GRAY SHALE	8.6	54.8
639.6	CARBONDALE		SANDSTONE	12.8	63.4
626.8	CARBONDALE		DARK SHALE	18.6	76.2
608.2	CARBONDALE	ST. DAVID	LIMESTONE	0.8	94.8
607.4	CARBONDALE	TURNER MINE	SHALE	3.4	95.6
604.0	CARBONDALE	SPRINGFIELD	COAL	3.6	99.0
600.4	CARBONDALE		UNDERCLAY	1.4	102.6

MAPID: 05785837000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082596

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.7106

DATE COLLECTED: 7 / 30 / 1976

SURFACE ELEVATION (FT.): 714.8 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25482

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
714.8	PLEISTOCENE		UNKNOWN	63.4	0.0 SPOIL
651.4	CARBONDALE		SHALE	10.1	63.4
641.3	CARBONDALE		SANDSTONE	14.5	73.5
626.8	CARBONDALE		SHALE	17.1	88.0
609.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	105.1
609.3	CARBONDALE	TURNER MINE	SHALE	3.0	105.5
606.3	CARBONDALE	SPRINGFIELD	COAL	3.2	108.5
603.1	CARBONDALE		SHALE/UNDERCLAY	3.3	111.7

MAPID: 05785839000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.08655 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.70831 DATE COLLECTED: 7 / 30 / 1976

SURFACE ELEVATION (FT.): 719.5 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25563 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
719.5	PLEISTOCENE		SOIL	1.0	0.0
718.5	PLEISTOCENE		CLAY	27.0	1.0
691.5	PLEISTOCENE		CLAY & GRAVEL	22.0	28.0
669.5	CARBONDALE		GRAY SHALE	18.0	50.0
651.5	CARBONDALE		CALCAREOUS SHALE	30.0	68.0
621.5	CARBONDALE		BLACK SHALE	3.6	98.0
617.9	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	101.6
617.2	CARBONDALE	SPRINGFIELD	COAL	3.8	102.3
613.4	CARBONDALE		SHALE/UNDERCLAY	1.9	106.1

MAPID: 05785840000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.086539 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709637 DATE COLLECTED: 8 / 2 / 1976

SURFACE ELEVATION (FT.): 711.7 LOGGED (FT.): 111.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25564 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
711.7	PLEISTOCENE		SOIL	1.0	0.0
710.7	PLEISTOCENE		CLAY	29.0	1.0
681.7	PLEISTOCENE		CLAY & GRAVEL	25.0	30.0
656.7	CARBONDALE		SANDSTONE	47.0	55.0
609.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	102.0
609.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	102.4
607.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	104.2
606.7	CARBONDALE	SPRINGFIELD	COAL	3.7	105.0
603.0	CARBONDALE		SHALE/UNDERCLAY	2.3	108.7

MAPID: 05785841000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.083019

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.711326

DATE COLLECTED: 8 / 9 / 1976

SURFACE ELEVATION (FT.): 710.2 LOGGED (FT.): 109.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25576

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
710.2	PLEISTOCENE		SOIL	1.0	0.0	
709.2	PLEISTOCENE		CLAY	29.0	1.0	YELLOW
680.2	PLEISTOCENE		CLAY	25.0	30.0	GRAY
655.2	CARBONDALE		GRAY SHALE	7.0	55.0	
648.2	CARBONDALE		SANDSTONE	18.0	62.0	SOFT
630.2	CARBONDALE		DARK SHALE	20.0	80.0	
610.2	CARBONDALE	ST. DAVID	LIMESTONE	0.5	100.0	
609.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	100.5	
607.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	102.4	
607.0	CARBONDALE	SPRINGFIELD	COAL	3.8	103.2	
603.2	CARBONDALE		SHALE/UNDERCLAY	2.0	107.0	

MAPID: 05785842000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.083093

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.709759

DATE COLLECTED: 7 / 29 / 1976

SURFACE ELEVATION (FT.): 720.3 LOGGED (FT.): 118.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 25783

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 17

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.3	PLEISTOCENE		UNCONSOLIDATED	50.0	0.0	
670.3	CARBONDALE		LIMESTONE	5.5	50.0	
664.8	CARBONDALE		SANDSTONE/SHALE	36.8	55.5	
628.0	CARBONDALE		DARK SHALE	15.8	92.3	
612.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	108.1	
611.8	CARBONDALE	TURNER MINE	DARK SHALE	2.2	108.5	
609.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	110.7	
608.3	CARBONDALE	SPRINGFIELD	COAL	3.5	112.0	
604.8	CARBONDALE		UNDERCLAY	2.5	115.5	

MAPID: 05791746000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.091419

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705798

DATE COLLECTED: 7 / 10 / 1975

SURFACE ELEVATION (FT.): 718.5 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23242

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIGITIZED FROM CO MAP 1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
718.5	PLEISTOCENE		CLAY	21.2	0.0
697.3	CARBONDALE		SANDSTONE	11.4	21.2
685.9	CARBONDALE		GRAY SHALE	10.4	32.6
675.5	CARBONDALE	ANNA	DARK SHALE	0.9	43.0
674.6	CARBONDALE	ANNA	BLACK SHALE	0.7	43.9
673.9	CARBONDALE	HERRIN	COAL	2.3	44.6
671.6	CARBONDALE	HERRIN	BLUE BAND	0.3	46.9
671.3	CARBONDALE	HERRIN	COAL	1.7	47.2
669.6	CARBONDALE		UNDERCLAY	1.6	48.9
668.0	CARBONDALE		MICACEOUS SHALE	2.2	50.5
665.8	CARBONDALE		SANDSTONE	7.6	52.7
658.2	CARBONDALE		SHALE & SANDSTONE	29.7	60.3
628.5	CARBONDALE		DARK SHALE	15.6	90.0
612.9	CARBONDALE	ST. DAVID	LIMESTONE	0.4	105.6
612.5	CARBONDALE	TURNER MINE	DARK SHALE	1.6	106.0
610.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	107.6
609.4	CARBONDALE	SPRINGFIELD	COAL	3.6	109.1
605.8	CARBONDALE		UNDERCLAY	2.3	112.7

MAPID: 05791749000C VERSION: 1

PROJECT: NCRDS 99

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 6 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.091419

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.705798

DATE COLLECTED: 7 / 22 / 1976

SURFACE ELEVATION (FT.): 713.0 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 25667

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIGITIZED FROM CO MAP 1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
713.0	PLEISTOCENE			11.8	0.0
701.2	PLEISTOCENE			1.2	11.8
700.0	PLEISTOCENE			6.0	13.0
694.0	PLEISTOCENE			1.0	19.0
693.0	PLEISTOCENE			15.0	20.0
678.0	CARBONDALE		GRAY SHALE	3.4	35.0
674.6	CARBONDALE		LIMESTONE	1.0	38.4
673.6	CARBONDALE		SHALE & SANDSTONE	34.6	39.4
639.0	CARBONDALE		DARK SHALE	16.7	74.0
622.3	CARBONDALE	ST. DAVID	LIMESTONE	0.5	90.7
621.8	CARBONDALE	TURNER MINE	DARK SHALE	1.6	91.2
620.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	92.8
619.0	CARBONDALE	SPRINGFIELD	COAL	3.6	94.0
615.4	CARBONDALE		UNDERCLAY	2.4	97.6

MAPID: 05786040000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 7 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.086515

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.68406

DATE COLLECTED: 6 / 19 / 1975

SURFACE ELEVATION (FT.): 727.8 LOGGED (FT.): 108.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22958

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.8	PLEISTOCENE		SANDY CLAY	20.0	0.0	
707.8	CARBONDALE		SANDSTONE	10.0	20.0	
697.8	CARBONDALE		GRAY SHALE	5.3	30.0	
692.5	CARBONDALE	BRERETON	LIMESTONE	4.7	35.3	
687.8	CARBONDALE		CLAYSTONE	0.5	40.0	WHITE TOP
687.3	CARBONDALE	HERRIN	COAL	2.3	40.5	
685.0	CARBONDALE		UNDERCLAY	1.8	42.8	
683.2	CARBONDALE		GRAY SHALE	5.4	44.6	
677.8	CARBONDALE		SANDSTONE	15.7	50.0	
662.1	CARBONDALE		LIMESTONE	14.8	65.7	
647.3	CARBONDALE		DARK SHALE	0.5	80.5	
646.8	CARBONDALE		SHALE	16.5	81.0	
630.3	CARBONDALE	ST. DAVID	LIMESTONE	0.5	97.5	
629.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	98.0	
628.3	CARBONDALE	TURNER MINE	DARK SHALE	1.5	99.5	
626.8	CARBONDALE	SPRINGFIELD	COAL	3.5	101.0	
623.3	CARBONDALE		UNDERCLAY	1.8	104.5	
621.5	CARBONDALE		GRAY SHALE	1.7	106.3	

MAPID: 05786045000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 7 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.084105

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684047

DATE COLLECTED: 6 / 18 / 1975

SURFACE ELEVATION (FT.): 730.6 LOGGED (FT.): 111.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23211

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.6	PLEISTOCENE		CLAY	23.0	0.0	YELLOW
707.6	PLEISTOCENE		CLAY	6.5	23.0	GRAY
701.1	CARBONDALE		GRAY SHALE	0.9	29.5	
700.2	CARBONDALE		SANDSTONE	4.4	30.4	
695.8	CARBONDALE		GRAY SHALE	7.7	34.8	
688.1	CARBONDALE	BRERETON	LIMESTONE	0.5	42.5	
687.6	CARBONDALE		CLAYSTONE	0.4	43.0	WHITE TOP
687.2	CARBONDALE	HERRIN	COAL	1.8	43.4	
685.4	CARBONDALE	HERRIN	BLUE BAND	0.2	45.2	
685.2	CARBONDALE	HERRIN	COAL	2.0	45.4	
683.2	CARBONDALE		UNDERCLAY	1.6	47.4	
681.6	CARBONDALE		SILTY SHALE	35.1	49.0	
646.5	CARBONDALE		DARK SHALE	17.9	84.1	
628.6	CARBONDALE	ST. DAVID	LIMESTONE	0.4	102.0	
628.2	CARBONDALE	TURNER MINE	DARK SHALE	1.6	102.4	
626.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	104.0	
625.3	CARBONDALE	SPRINGFIELD	COAL	4.0	105.3	
621.3	CARBONDALE		UNDERCLAY	1.7	109.3	

MAPID: 05786046000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 7 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.085359

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684052

DATE COLLECTED: 6 / 19 / 1975

SURFACE ELEVATION (FT.): 729.4 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23212

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
729.4	PLEISTOCENE		CLAY	24.8	0.0
704.6	SHELBURN		GRAY SHALE	1.7	24.8
702.9	SHELBURN		SANDSTONE	2.5	26.5
700.4	SHELBURN		SHALE & SANDSTONE	14.7	29.0
685.7	CARBONDALE	ANNA	DARK SHALE	0.3	43.7
685.4	CARBONDALE	HERRIN	COAL	2.5	44.0
682.9	CARBONDALE	HERRIN	BLUE BAND	0.2	46.5
682.7	CARBONDALE	HERRIN	COAL	1.5	46.7
681.2	CARBONDALE		UNDERCLAY	1.8	48.2

MAPID: 05786141000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 7 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.0877

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684057

DATE COLLECTED: 6 / 19 / 1975

SURFACE ELEVATION (FT.): 726.9 LOGGED (FT.): 44.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22959

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
726.9	PLEISTOCENE		SANDY CLAY	18.0	0.0
708.9	PLEISTOCENE		CLAY & GRAVEL	4.8	18.0
704.1	CARBONDALE		SANDSTONE	5.7	22.8
698.4	CARBONDALE		GRAY SHALE	9.3	28.5
689.1	CARBONDALE	BRERETON	LIMESTONE	0.6	37.8
688.5	CARBONDALE		CLAYSTONE	0.6	38.4 WHITE TOP
687.9	CARBONDALE	HERRIN	COAL	2.0	39.0
685.9	CARBONDALE	HERRIN	BLUE BAND	0.2	41.0
685.7	CARBONDALE	HERRIN	COAL	1.4	41.2
684.3	CARBONDALE		UNDERCLAY	1.4	42.6

MAPID: 05786142000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 7 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.088929

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684082

DATE COLLECTED: 6 / 19 / 1975

SURFACE ELEVATION (FT.): 726.9 LOGGED (FT.): 108.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23213

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
726.9	PLEISTOCENE		CLAY	24.8	0.0
702.1	PLEISTOCENE		UNCONSOLIDATED	47.7	24.8
654.4	CARBONDALE		GRAY SHALE	15.5	72.5
638.9	CARBONDALE		DARK SHALE	12.0	88.0
626.9	CARBONDALE	ST. DAVID	LIMESTONE	0.3	100.0
626.6	CARBONDALE	TURNER MINE	DARK SHALE	1.2	100.3
625.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	101.5
624.1	CARBONDALE	SPRINGFIELD	COAL	3.9	102.8
620.2	CARBONDALE		UNDERCLAY	1.3	106.7

MAPID: 05786143000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 7 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.091172

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684115

DATE COLLECTED:

SURFACE ELEVATION (FT.): 725.2 LOGGED (FT.): 48.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23214

WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
725.2	PLEISTOCENE		UNCONSOLIDATED	30.0	0.0
695.2	PLEISTOCENE		UNKNOWN	0.8	30.0
694.4	CARBONDALE	HERRIN	COAL	4.0	30.8 BROKEN
690.4	CARBONDALE		UNKNOWN	9.2	34.8
681.2	CARBONDALE	SPRINGFIELD	COAL	4.0	44.0

MAPID: 05786144000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 7 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.089827

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684096

DATE COLLECTED:

SURFACE ELEVATION (FT.): 727.8 LOGGED (FT.): 106.7

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23215

WELL TYPE: Coal Test

COMMENT: LOCATIONS & DATA DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.8	PLEISTOCENE		UNCONSOLIDATED	35.0	0.0	
692.8			UNKNOWN	67.8	35.0	
625.0	CARBONDALE	SPRINGFIELD	COAL	3.9	102.8	

MAPID: 05760054000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 8 QUARTERS/FOOTAGES: 395' N line, 0' E line of SE NE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.063261

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.693665

DATE COLLECTED: 12 / 11 / 1928

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 53.1

LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CO.

WELL TYPE: Coal Test

COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.1	CARBONDALE	SPRINGFIELD	COAL	4.2	48.9	

MAPID: 05760070000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 8 QUARTERS/FOOTAGES: 0' S line, 0' E line of SW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.073014

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.683902

DATE COLLECTED: 12 / 11 / 1928

SURFACE ELEVATION (FT.): 731.0 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CO.

WELL TYPE: Coal Test

COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.7	CARBONDALE	SPRINGFIELD	COAL	4.3	55.3	

MAPID: 05760071000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 8 QUARTERS/FOOTAGES: SW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.077694 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.687571 DATE COLLECTED: 12 / 11 / 1928

SURFACE ELEVATION (FT.): 741.0 LOGGED (FT.): 47.4 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.2	CARBONDALE	SPRINGFIELD	COAL	4.6	42.8	

MAPID: 05785974000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 8 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.068506 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683976 DATE COLLECTED: 6 / 19 / 1975

SURFACE ELEVATION (FT.): 739.2 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22960 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.2	PLEISTOCENE		SANDY CLAY	18.2	0.0	
721.0	PLEISTOCENE		UNKNOWN	0.8	18.2	COAL
720.2	PLEISTOCENE		CLAY & GRAVEL	7.4	19.0	
712.8	SHELBURN		GRAY SHALE	7.6	26.4	
705.2	SHELBURN		GRAY SANDSTONE	21.4	34.0	
683.8	CARBONDALE		CLAYSTONE	0.6	55.4	WHITE TOP
683.2	CARBONDALE	HERRIN	COAL	3.0	56.0	
680.2	CARBONDALE		UNDERCLAY	1.0	59.0	

MAPID: 05785979000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 8 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.072889 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.691175 DATE COLLECTED: 6 / 24 / 1975

SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 112.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23020 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.0	PLEISTOCENE		CLAY	21.0	0.0	
714.0	CARBONDALE		SANDSTONE	5.8	21.0	
708.2	CARBONDALE		SHALE	13.4	26.8	
694.8	CARBONDALE	BRERETON	LIMESTONE	5.5	40.2	
689.3	CARBONDALE		CLAYSTONE	1.2	45.7	WHITE TOP
688.1	CARBONDALE	HERRIN	COAL	2.7	46.9	
685.4	CARBONDALE		UNDERCLAY	1.2	49.6	
684.2	CARBONDALE		SANDSTONE	2.9	50.8	
681.3	CARBONDALE		SHALE & SANDSTONE	3.3	53.7	
678.0	CARBONDALE		SHALE	5.1	57.0	
672.9	CARBONDALE		SANDSTONE	3.6	62.1	
669.3	CARBONDALE		SHALE	10.6	65.7	
658.7	CARBONDALE		SANDSTONE	5.4	76.3	
653.3	CARBONDALE		SHALE	3.5	81.7	
649.8	CARBONDALE		SANDSTONE	6.1	85.2	
643.7	CARBONDALE		SHALE & SANDSTONE	10.5	91.3	
633.2	CARBONDALE		SHALE	1.2	101.8	
632.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	103.0	
631.5	CARBONDALE	TURNER MINE	SHALE	1.8	103.5	
629.7	CARBONDALE	SPRINGFIELD	COAL	3.9	105.3	
625.8	CARBONDALE		SHALE/UNDERCLAY	2.8	109.2	

MAPID: 0578598000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 8 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.07291 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.689335 DATE COLLECTED: 6 / 24 / 1975

SURFACE ELEVATION (FT.): 743.0 LOGGED (FT.): 123.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23021 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.0	PLEISTOCENE		CLAY	26.4	0.0	
716.6	CARBONDALE		SHALE & SANDSTONE	11.4	26.4	
705.2	CARBONDALE		SANDSTONE	8.9	37.8	
696.3	CARBONDALE		SHALE	9.3	46.7	
687.0	CARBONDALE	BRERETON	LIMESTONE	0.6	56.0	
686.4	CARBONDALE	ANNA	DARK SHALE	0.6	56.6	
685.8	CARBONDALE	HERRIN	COAL	3.9	57.2	
681.9	CARBONDALE		UNDERCLAY	1.3	61.1	
680.6	CARBONDALE		SANDSTONE	9.3	62.4	
671.3	CARBONDALE		SHALE	3.7	71.7	
667.6	CARBONDALE		SANDSTONE	5.6	75.4	
662.0	CARBONDALE		SHALE	7.5	81.0	
654.5	CARBONDALE		SANDSTONE	10.7	88.5	
643.8	CARBONDALE		SHALE & SANDSTONE	14.9	99.2	
628.9	CARBONDALE	TURNER MINE	SHALE	2.7	114.1	
626.2	CARBONDALE	SPRINGFIELD	COAL	3.8	116.8	
622.4	CARBONDALE		SHALE/UNDERCLAY	2.4	120.6	

MAPID: 05786033000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 8 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.073369 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683876 DATE COLLECTED: 6 / 16 / 1975

SURFACE ELEVATION (FT.): 735.7 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22948 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.7	PLEISTOCENE		SANDY CLAY	20.0	0.0	YELLOW
715.7	PLEISTOCENE		SANDY CLAY	6.5	20.0	GRAY
709.2	SHELBURN		GRAY SANDSTONE	16.5	26.5	
692.7	SHELBURN		GRAY SHALE	9.1	43.0	
683.6	CARBONDALE	HERRIN	COAL	1.9	52.1	
681.7	CARBONDALE	HERRIN	BLUE BAND	0.2	54.0	
681.5	CARBONDALE	HERRIN	COAL	1.3	54.2	
680.2	CARBONDALE		UNDERCLAY	1.8	55.5	
678.4	CARBONDALE		GRAY SHALE	2.7	57.3	

MAPID: 05786034000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 8 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.074627

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683917

DATE COLLECTED: 6 / 16 / 1975

SURFACE ELEVATION (FT.): 728.3 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22949

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.3	PLEISTOCENE		SANDY CLAY	5.0	0.0	
723.3	PLEISTOCENE		CLAY & GRAVEL	13.0	5.0	
710.3	PLEISTOCENE		CLAY	3.5	18.0	& BOULDERS
706.8	CARBONDALE		SHALE & SANDSTONE	15.4	21.5	
691.4	CARBONDALE	BRERETON	LIMESTONE	5.3	36.9	
686.1	CARBONDALE		CLAYSTONE	1.0	42.2	WHITE TOP
685.1	CARBONDALE	HERRIN	COAL	3.2	43.2	
681.9	CARBONDALE		UNDERCLAY	1.6	46.4	
680.3	CARBONDALE		GRAY SHALE	3.5	48.0	
676.8	CARBONDALE		LIMESTONE	2.5	51.5	
674.3	CARBONDALE		GRAY SANDSTONE	12.0	54.0	
662.3	CARBONDALE		GRAY SHALE	17.0	66.0	
645.3	CARBONDALE		LIMESTONE	0.3	83.0	
645.0	CARBONDALE		DARK SHALE	20.7	83.3	
624.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	104.0	
623.3	CARBONDALE	SPRINGFIELD	COAL	1.7	105.0	
621.6	CARBONDALE		LIMESTONE	0.8	106.7	
620.8	CARBONDALE	SPRINGFIELD	COAL	0.7	107.5	
620.1	CARBONDALE		UNDERCLAY	1.8	108.2	

MAPID: 05786035000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 8 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.075754

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683914

DATE COLLECTED: 6 / 16 / 1975

SURFACE ELEVATION (FT.): 730.4 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22950

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.4	PLEISTOCENE		SANDY CLAY	15.0	0.0	
715.4	PLEISTOCENE		CLAY & GRAVEL	14.6	15.0	
700.8	CARBONDALE		GRAY SHALE	3.4	29.6	
697.4	CARBONDALE		LIMESTONE	0.6	33.0	
696.8	CARBONDALE		GRAY SHALE	9.4	33.6	
687.4	CARBONDALE	BRERETON	LIMESTONE	1.4	43.0	
686.0	CARBONDALE		SANDSTONE	1.1	44.4	
684.9	CARBONDALE	HERRIN	SANDSTONE/COAL	0.9	45.5	TOP ERODED
684.0	CARBONDALE	HERRIN	COAL	0.9	46.4	
683.1	CARBONDALE		SHALE/UNDERCLAY	2.7	47.3	

MAPID: 05786036000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 8 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.078193

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683922

DATE COLLECTED: 6 / 16 / 1975

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 43.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22951

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.0	PLEISTOCENE		SANDY CLAY	19.5	0.0	
710.5	PLEISTOCENE		CLAY & GRAVEL	10.5	19.5	
700.0	SHELBURN		SANDY SHALE	2.0	30.0	
698.0	SHELBURN		SANDSTONE	4.5	32.0	
693.5	CARBONDALE	HERRIN	SANDSTONE/COAL	2.4	36.5	TOP PROBABLY ERODED
691.1	CARBONDALE	HERRIN	COAL	2.0	38.9	
689.1	CARBONDALE		UNDERCLAY	2.1	40.9	

MAPID: 05786037000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 8 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.080651

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684012

DATE COLLECTED: 6 / 18 / 1975

SURFACE ELEVATION (FT.): 726.0 LOGGED (FT.): 31.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22955

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.0	PLEISTOCENE		SANDY CLAY	19.8	0.0	
706.2	PLEISTOCENE		CLAY & GRAVEL	4.1	19.8	
702.1	SHELURN		SANDSTONE	1.1	23.9	
701.0	CARBONDALE	HERRIN	COAL	2.8	25.0	TOP PROBABLY ERODED
698.2	CARBONDALE	HERRIN	BLUE BAND	0.2	27.8	
698.0	CARBONDALE	HERRIN	COAL	1.3	28.0	
696.7	CARBONDALE		UNDERCLAY	1.7	29.3	

MAPID: 05786038000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 8 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.081745

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684017

DATE COLLECTED: 6 / 18 / 1975

SURFACE ELEVATION (FT.): 727.2 LOGGED (FT.): 97.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22956

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.2	PLEISTOCENE		CLAY & GRAVEL	17.8	0.0	YELLOW
709.4	PLEISTOCENE		CLAY & GRAVEL	6.2	17.8	GRAY
703.2	CARBONDALE		GRAY SANDSTONE	3.0	24.0	
700.2	CARBONDALE	BRERETON	LIMESTONE	2.7	27.0	
697.5	CARBONDALE		CLAYSTONE	0.7	29.7	WHITE TOP
696.8	CARBONDALE	HERRIN	COAL	3.6	30.4	
693.2	CARBONDALE		UNDERCLAY	2.0	34.0	
691.2	CARBONDALE		GRAY SHALE	6.0	36.0	
685.2	CARBONDALE		SANDSTONE/SHALE	28.0	42.0	
657.2	CARBONDALE		LIMESTONE	0.3	70.0	
656.9	CARBONDALE		DARK SHALE	18.0	70.3	
638.9	CARBONDALE	ST. DAVID	LIMESTONE	0.3	88.3	
638.6	CARBONDALE	TURNER MINE	DARK SHALE	1.4	88.6	
637.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	90.0	
635.7	CARBONDALE	SPRINGFIELD	COAL	3.7	91.5	
632.0	CARBONDALE		UNDERCLAY	1.8	95.2	

MAPID: 05786039000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 8 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082836

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684042

DATE COLLECTED: 6 / 19 / 1975

SURFACE ELEVATION (FT.): 730.1 LOGGED (FT.): 44.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22957

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.1	PLEISTOCENE		SANDY CLAY	23.6	0.0	
706.5	PLEISTOCENE		CLAY & GRAVEL	6.5	23.6	
700.0	SHELBURN		GRAY SHALE	5.7	30.1	
694.3	CARBONDALE	ANNA	DARK SHALE	1.7	35.8	
692.6	CARBONDALE	HERRIN	COAL	2.4	37.5	
690.2	CARBONDALE	HERRIN	BLUE BAND	0.2	39.9	
690.0	CARBONDALE	HERRIN	COAL	1.8	40.1	
688.2	CARBONDALE		UNDERCLAY	2.1	41.9	

MAPID: 05786043000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 8 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.07699

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683922

DATE COLLECTED: 6 / 16 / 1975

SURFACE ELEVATION (FT.): 730.9 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23206

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.9	PLEISTOCENE		CLAY	24.0	0.0	YELLOW
706.9	PLEISTOCENE		CLAY	7.5	24.0	GRAY
699.4	SHELBURN		GRAY SHALE	2.9	31.5	
696.5	SHELBURN		SANDSTONE	2.4	34.4	
694.1	SHELBURN		GRAY SHALE	5.2	36.8	
688.9	CARBONDALE	ANNA	DARK SHALE	0.5	42.0	
688.4	CARBONDALE	HERRIN	COAL	3.1	42.5	
685.3	CARBONDALE		UNDERCLAY	1.6	45.6	
683.7	CARBONDALE		MICACEOUS SHALE	8.9	47.2	
674.8	CARBONDALE		LIMESTONE	2.9	56.1	
671.9	CARBONDALE		GRAY SHALE	23.0	59.0	
648.9	CARBONDALE		DARK SHALE	19.7	82.0	
629.2	CARBONDALE	TURNER MINE	DARK SHALE	0.8	101.7	
628.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	102.5	
627.1	CARBONDALE	SPRINGFIELD	COAL	3.8	103.8	
623.3	CARBONDALE		UNDERCLAY	2.4	107.6	

MAPID: 05786044000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 8 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.079404

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684023

DATE COLLECTED: 6 / 18 / 1975

SURFACE ELEVATION (FT.): 720.6 LOGGED (FT.): 92.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23210

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.6	PLEISTOCENE		CLAY	13.0	0.0	YELLOW
707.6	PLEISTOCENE		CLAY	6.5	13.0	GRAY
701.1	SHELBURN		SANDSTONE	8.5	19.5	
692.6	CARBONDALE	HERRIN	COAL/SANDSTONE	1.1	28.0	TOP ERODED
691.5	CARBONDALE		UNDERCLAY	1.6	29.1	
689.9	CARBONDALE		SHALE & SANDSTONE	28.8	30.7	
661.1	CARBONDALE		GRAY SHALE	9.5	59.5	
651.6	CARBONDALE		DARK SHALE	15.6	69.0	
636.0	CARBONDALE	TURNER MINE	DARK SHALE	1.0	84.6	
635.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	85.6	
633.7	CARBONDALE	SPRINGFIELD	COAL	3.2	86.9	
630.5	CARBONDALE	SPRINGFIELD	SHALE/COAL	0.5	90.1	
630.0	CARBONDALE		UNDERCLAY	1.4	90.6	

MAPID: 05760056000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 9 QUARTERS/FOOTAGES: 410' N line, 215' E line of NE NW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.054319

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.697214

DATE COLLECTED: 12 / 11 / 1928

SURFACE ELEVATION (FT.): 710.0 LOGGED (FT.): 52.8

LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CO.

WELL TYPE: Coal Test

COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.2	CARBONDALE	SPRINGFIELD	COAL	4.0	48.8	

MAPID: 05760057000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 9 QUARTERS/FOOTAGES: 0' S line, 375' W line of NW NE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.052243

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.694699

DATE COLLECTED: 12 / 11 / 1928

SURFACE ELEVATION (FT.): 723.0 LOGGED (FT.): 58.7

LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CO.

WELL TYPE: Coal Test

COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.7	CARBONDALE	SPRINGFIELD	COAL	4.3	54.3	

MAPID: 05785954000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.054814

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683919

DATE COLLECTED: 6 / 27 / 1975

SURFACE ELEVATION (FT.): 728.3 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22968

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
728.3	PLEISTOCENE		SANDY CLAY	15.5	0.0
712.8	PLEISTOCENE		CLAY	8.9	15.5
703.9	SHELBURN		SANDSTONE	10.1	24.4
693.8	SHELBURN		GRAY SHALE	12.5	34.5
681.3	CARBONDALE	ANNA	DARK SHALE	1.9	47.0
679.4	CARBONDALE	HERRIN	COAL	2.8	48.9
676.6	CARBONDALE	HERRIN	BLUE BAND	0.2	51.7
676.4	CARBONDALE	HERRIN	COAL	1.5	51.9
674.9	CARBONDALE		UNDERCLAY	1.6	53.4
673.3	CARBONDALE		GRAY SHALE	3.2	55.0
670.1	CARBONDALE		SANDSTONE	30.3	58.2
639.8	CARBONDALE		DARK SHALE	7.9	88.5
631.9	CARBONDALE		LIMESTONE	0.3	96.4
631.6	CARBONDALE		DARK SHALE	7.4	96.7
624.2	CARBONDALE		LIMESTONE	0.3	104.1
623.9	CARBONDALE		DARK SHALE	7.4	104.4
616.5	CARBONDALE	ST. DAVID	LIMESTONE	0.3	111.8
616.2	CARBONDALE	TURNER MINE	DARK SHALE	1.3	112.1
614.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	113.4
613.3	CARBONDALE	SPRINGFIELD	COAL	3.5	115.0
609.8	CARBONDALE		UNDERCLAY	1.5	118.5

MAPID: 05785955000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.046706

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683816

DATE COLLECTED: 6 / 30 / 1975

SURFACE ELEVATION (FT.): 758.0 LOGGED (FT.): 135.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22969

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
758.0	PLEISTOCENE		SANDY CLAY	28.0	0.0	
730.0	PLEISTOCENE		CLAY & GRAVEL	31.1	28.0	
698.9	CARBONDALE	BRERETON	LIMESTONE	5.7	59.1	
693.2	CARBONDALE	HERRIN	COAL	1.0	64.8	BLOSSOM
692.2	CARBONDALE	HERRIN	COAL	1.2	65.8	SOFT; POOR FLOAT
691.0	CARBONDALE	HERRIN	COAL	2.0	67.0	
689.0	CARBONDALE		UNDERCLAY	1.8	69.0	
687.2	CARBONDALE		SANDSTONE	19.2	70.8	
668.0	CARBONDALE		GRAY SHALE	11.5	90.0	
656.5	CARBONDALE		LIMESTONE	0.3	101.5	
656.2	CARBONDALE		DARK SHALE	22.7	101.8	
633.5	CARBONDALE	ST. DAVID	LIMESTONE	1.1	124.5	
632.4	CARBONDALE	TURNER MINE	DARK SHALE	1.9	125.6	
630.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	127.5	
629.0	CARBONDALE	SPRINGFIELD	COAL	3.6	129.0	
625.4	CARBONDALE		UNDERCLAY	2.4	132.6	

MAPID: 0578596000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.052067

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683921

DATE COLLECTED: 6 / 27 / 1975

SURFACE ELEVATION (FT.): 748.5 LOGGED (FT.): 131.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23227

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.5	PLEISTOCENE		CLAY	30.0	0.0	YELLOW
718.5	PLEISTOCENE		CLAY	12.5	30.0	GRAY
706.0	SHELBURN		SANDSTONE	5.5	42.5	
700.5	SHELBURN		SHALE & SANDSTONE	11.7	48.0	
688.8	CARBONDALE	ANNA	SHALE	2.2	59.7	
686.6	CARBONDALE	HERRIN	COAL	2.2	61.9	
684.4	CARBONDALE	HERRIN	BLUE BAND	0.2	64.1	
684.2	CARBONDALE	HERRIN	COAL	1.9	64.3	
682.3	CARBONDALE		UNDERCLAY	1.8	66.2	
680.5	CARBONDALE		SHALE & SANDSTONE	36.7	68.0	
643.8	CARBONDALE		DARK SHALE	19.6	104.7	
624.2	CARBONDALE	TURNER MINE	DARK SHALE	1.3	124.3	
622.9	CARBONDALE		BLACK SHALE	0.8	125.6	
622.1	CARBONDALE	SPRINGFIELD	COAL	3.0	126.4	
619.1	CARBONDALE		UNDERCLAY	1.6	129.4	

MAPID: 05785961000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.051186

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683911

DATE COLLECTED: 2 / 27 / 1975

SURFACE ELEVATION (FT.): 755.1 LOGGED (FT.): 72.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23228

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
755.1	PLEISTOCENE		CLAY	28.0	0.0	
727.1	PLEISTOCENE		UNCONSOLIDATED	18.5	28.0	
708.6	CARBONDALE		SANDSTONE	7.1	46.5	
701.5	CARBONDALE		SHALE & SANDSTONE	10.0	53.6	
691.5	CARBONDALE	BRERETON	LIMESTONE	1.4	63.6	
690.1	CARBONDALE	ANNA	DARK SHALE	1.7	65.0	
688.4	CARBONDALE		CLAYSTONE	1.8	66.7	WHITE TOP
686.6	CARBONDALE	HERRIN	COAL	2.0	68.5	
684.6	CARBONDALE		UNDERCLAY	1.5	70.5	

MAPID: 05785962000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.049116

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683835

DATE COLLECTED: 6 / 30 / 1975

SURFACE ELEVATION (FT.): 757.2 LOGGED (FT.): 137.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23229

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
757.2	PLEISTOCENE		CLAY	30.0	0.0	YELLOW
727.2	PLEISTOCENE		CLAY	37.9	30.0	GRAY
689.3	CARBONDALE	HERRIN	COAL	3.1	67.9	TOP ERODED
686.2	CARBONDALE		UNDERCLAY	1.5	71.0	
684.7	CARBONDALE		MICACEOUS SHALE	3.0	72.5	
681.7	CARBONDALE		SANDSTONE	8.1	75.5	
673.6	CARBONDALE		SHALE & SANDSTONE	26.6	83.6	
647.0	CARBONDALE		DARK SHALE	17.8	110.2	
629.2	CARBONDALE	ST. DAVID	LIMESTONE	0.9	128.0	
628.3	CARBONDALE	TURNER MINE	DARK SHALE	1.1	128.9	
627.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	130.0	
625.7	CARBONDALE	SPRINGFIELD	COAL	3.9	131.5	
621.8	CARBONDALE		UNDERCLAY	1.6	135.4	

MAPID: 05785977000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.051668

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683903

DATE COLLECTED: 6 / 26 / 1975

SURFACE ELEVATION (FT.): 733.7 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22966

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.7	PLEISTOCENE		SANDY CLAY	10.0	0.0	YELLOW
723.7	PLEISTOCENE		SANDY CLAY	11.0	10.0	GRAY
712.7	SHELBURN		SANDSTONE	15.8	21.0	
696.9	SHELBURN		GRAY SHALE	7.4	36.8	
689.5	SHELBURN		LIMESTONE	0.3	44.2	
689.2	CARBONDALE	ANNA	GRAY SHALE	3.5	44.5	
685.7	CARBONDALE	ANNA	DARK SHALE	3.5	48.0	
682.2	CARBONDALE	HERRIN	COAL	3.2	51.5	
679.0	CARBONDALE		UNDERCLAY	2.3	54.7	
676.7	CARBONDALE		SANDSTONE	17.0	57.0	
659.7	CARBONDALE		LIMESTONE	2.4	74.0	
657.3	CARBONDALE		GRAY SHALE	13.6	76.4	
643.7	CARBONDALE		DARK SHALE	21.5	90.0	
622.2	CARBONDALE	ST. DAVID	LIMESTONE	1.0	111.5	
621.2	CARBONDALE	TURNER MINE	DARK SHALE	1.5	112.5	
619.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	114.0	
618.4	CARBONDALE	SPRINGFIELD	COAL	3.7	115.3	
614.7	CARBONDALE		UNDERCLAY	1.0	119.0	

MAPID: 05785978000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.049316

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683909

DATE COLLECTED: 6 / 27 / 1975

SURFACE ELEVATION (FT.): 736.3 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22967

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.3	PLEISTOCENE		SANDY CLAY	17.5	0.0	
718.8	PLEISTOCENE		CLAY & GRAVEL	5.2	17.5	
713.6	SHELBURN		SANDSTONE	17.3	22.7	
696.3	SHELBURN		GRAY SHALE	9.8	40.0	
686.5	CARBONDALE	ANNA	DARK SHALE	2.7	49.8	
683.8	CARBONDALE	HERRIN	COAL	2.4	52.5	
681.4	CARBONDALE	HERRIN	BLUE BAND	0.2	54.9	
681.2	CARBONDALE	HERRIN	COAL	1.6	55.1	
679.6	CARBONDALE		UNDERCLAY	2.3	56.7	
677.3	CARBONDALE		GRAY SHALE	1.0	59.0	

MAPID: 05785990000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.053817

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683924

DATE COLLECTED: 6 / 26 / 1975

SURFACE ELEVATION (FT.): 736.2 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23222

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.2	PLEISTOCENE		CLAY	22.5	0.0	YELLOW
713.7	PLEISTOCENE		CLAY	2.7	22.5	GRAY
711.0	CARBONDALE		GRAY SHALE	9.0	25.2	
702.0	CARBONDALE		SANDSTONE	3.9	34.2	
698.1	CARBONDALE		GRAY SHALE	11.7	38.1	
686.4	CARBONDALE		DARK SHALE	1.7	49.8	
684.7	CARBONDALE	BRERETON	LIMESTONE	1.2	51.5	
683.5	CARBONDALE		CLAYSTONE	0.3	52.7	WHITE TOP
683.2	CARBONDALE	HERRIN	COAL	2.2	53.0	
681.0	CARBONDALE	HERRIN	BLUE BAND	0.2	55.2	
680.8	CARBONDALE	HERRIN	COAL	1.8	55.4	
679.0	CARBONDALE		UNDERCLAY	2.8	57.2	

MAPID: 05785991000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 9 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.046507

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683897

DATE COLLECTED: 6 / 26 / 1975

SURFACE ELEVATION (FT.): 726.2 LOGGED (FT.): 109.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23223

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.2	PLEISTOCENE		CLAY	12.5	0.0	
713.7	CARBONDALE		SANDSTONE	11.8	12.5	
701.9	CARBONDALE		GRAY SHALE	14.7	24.3	
687.2	CARBONDALE		DARK SHALE	1.8	39.0	
685.4	CARBONDALE	HERRIN	COAL	4.1	40.8	
681.3	CARBONDALE		UNDERCLAY	1.6	44.9	
679.7	CARBONDALE		SHALE & SANDSTONE	33.8	46.5	
645.9	CARBONDALE		DARK SHALE	20.7	80.3	
625.2	CARBONDALE	TURNER MINE	DARK SHALE	1.3	101.0	
623.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	102.3	
622.4	CARBONDALE	SPRINGFIELD	COAL	4.0	103.8	
618.4	CARBONDALE		UNDERCLAY	1.2	107.8	

MAPID: 05760058000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 10 QUARTERS/FOOTAGES: NW NW SW NW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.043377

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.694199

DATE COLLECTED: 12 / 11 / 1928

SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 24.4

LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CO.

WELL TYPE: Coal Test

COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.6	CARBONDALE	SPRINGFIELD	COAL	4.0	20.4	1.08-FT PTG

MAPID: 05760060000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 10 QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.042688

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.697377

DATE COLLECTED: 12 / 11 / 1928

SURFACE ELEVATION (FT.): 724.0 LOGGED (FT.): 66.7

LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CO.

WELL TYPE: Coal Test

COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
661.9	CARBONDALE	SPRINGFIELD	COAL	4.6	62.1	

MAPID: 05760061000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 10 QUARTERS/FOOTAGES: 537' S line, 660' W line of SW NW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.041635 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.692485 DATE COLLECTED: 12 / 11 / 1928

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 19.6 LOG TYPE: Drillers Log

SOURCE: STONEFORT COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM COAL SECTION MAP 6-93

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.6	CARBONDALE	SPRINGFIELD	COAL	3.2	16.4	

MAPID: 05785964000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.044168 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.685546 DATE COLLECTED: 6 / 26 / 1975

SURFACE ELEVATION (FT.): 757.3 LOGGED (FT.): 137.8 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23411 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
757.3	PLEISTOCENE		SOIL	1.0	0.0	
756.3	PLEISTOCENE		CLAY	29.0	1.0	
727.3	PLEISTOCENE		CLAY & GRAVEL	29.0	30.0	
698.3	SHELBURN		SANDSTONE	11.0	59.0	SOFT
687.3	SHELBURN		GRAY SHALE	6.4	70.0	
680.9	CARBONDALE	HERRIN	COAL	1.1	76.4	
679.8	CARBONDALE	HERRIN	BLUE BAND	0.2	77.5	
679.6	CARBONDALE	HERRIN	COAL	1.3	77.7	
678.3	CARBONDALE		UNDERCLAY	2.0	79.0	
676.3	CARBONDALE		GRAY SHALE	10.0	81.0	
666.3	CARBONDALE		CALCAREOUS SHALE	27.0	91.0	
639.3	CARBONDALE		DARK SHALE	19.5	118.0	
619.8	CARBONDALE	ST. DAVID	LIMESTONE	0.3	137.5	
619.5	CARBONDALE	SPRINGFIELD	CAVITY	-	137.8	

MAPID: 05785965000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.044114

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.686518

DATE COLLECTED: 6 / 26 / 1975

SURFACE ELEVATION (FT.): 753.1 LOGGED (FT.): 81.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23413

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
753.1	PLEISTOCENE		SOIL	1.0	0.0	
752.1	PLEISTOCENE		CLAY	29.0	1.0	
723.1	PLEISTOCENE		CLAY & GRAVEL	20.0	30.0	
703.1	CARBONDALE		SANDSTONE	2.0	50.0	
701.1	CARBONDALE		SHALE & SANDSTONE	19.0	52.0	
682.1	CARBONDALE	BRERETON	LIMESTONE	3.1	71.0	
679.0	CARBONDALE		CLAYSTONE	1.6	74.1	WHITE TOP
677.4	CARBONDALE	HERRIN	COAL	2.7	75.7	
674.7	CARBONDALE		UNDERCLAY	2.6	78.4	

MAPID: 05785966000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 10 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.044209

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684663

DATE COLLECTED: 6 / 27 / 1975

SURFACE ELEVATION (FT.): 757.5 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23414

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
757.5	PLEISTOCENE		SOIL	1.0	0.0	
756.5	PLEISTOCENE		CLAY	29.0	1.0	
727.5	PLEISTOCENE		CLAY & GRAVEL	21.0	30.0	
706.5	PLEISTOCENE		SAND & GRAVEL	8.0	51.0	
698.5	PLEISTOCENE		CLAY, SAND & GRAVEL	26.0	59.0	
672.5			GRAY SHALE	5.0	85.0	

MAPID: 05700948000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 11 QUARTERS/FOOTAGES: 800' N line, 300' E line

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.006807 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.69597 DATE COLLECTED: 11 / 0 / 1956

SURFACE ELEVATION (FT.): 720.0 LOGGED (FT.): 1743.0 LOG TYPE: Drillers Log

SOURCE: VARNER WELL AND PUMP CO. WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.0			UNCONSOLIDATED	11.0	0.0	
709.0	CARBONDALE		LIMESTONE	33.0	11.0	GY,INTRBDD W/ BK SH LWR 4 FT
676.0	CARBONDALE		GRAY SHALE	71.0	44.0	
605.0	CARBONDALE	SPRINGFIELD	COAL	9.0	115.0	INTRBDD SH, LS, COAL
596.0	CARBONDALE		GRAY SHALE	53.0	124.0	
543.0	CARBONDALE	COLCHESTER	COAL	3.0	177.0	BASE OF CARBONDALE
540.0	SPOON		SHALE	125.0	180.0	GY,GN,DK GY
415.0			SANDSTONE	5.0	305.0	GRAY
410.0			SHALE	7.0	310.0	TAN
403.0			LIMESTONE	3.0	317.0	GRAY
400.0			SHALE	29.0	320.0	GY,BL
371.0			SANDSTONE/SHALE	54.0	349.0	BS PENNSYLVANIAN; INTRBDD SS;SH;SDY SH
317.0			ROCK	1340.0	403.0	MISSISSIPPIAN TO ORDOVICIAN

MAPID: 05786103000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 11 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.085031

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678321

DATE COLLECTED: 2 / 1 / 1979

SURFACE ELEVATION (FT.): 734.8 LOGGED (FT.): 102.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28367

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.8	PLEISTOCENE		CLAY	25.0	0.0	YELLOW
709.8	PLEISTOCENE		CLAY	7.0	25.0	GRAY
702.8	SHELBURN		GRAY SHALE	4.5	32.0	
698.3	SHELBURN		SANDSTONE	15.5	36.5	
682.8	SHELBURN		GRAY SHALE	1.1	52.0	
681.7	CARBONDALE	HERRIN	COAL	2.1	53.1	
679.6	CARBONDALE		UNDERCLAY	1.8	55.2	
677.8	CARBONDALE		SHALE & SANDSTONE	24.0	57.0	
653.8	CARBONDALE		DARK SHALE	12.2	81.0	
641.6	CARBONDALE	ST. DAVID	LIMESTONE	0.8	93.2	
640.8	CARBONDALE	TURNER MINE	DARK SHALE	1.2	94.0	
639.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	95.2	
638.1	CARBONDALE	SPRINGFIELD	COAL	3.8	96.7	
634.3	CARBONDALE		UNDERCLAY	1.5	100.5	

MAPID: 05723124000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 14 QUARTERS/FOOTAGES: NE NW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.018025 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.681852 DATE COLLECTED: 3 / 24 / 1960

SURFACE ELEVATION (FT.): 718.0 LOGGED (FT.): 151.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
718.0			UNCONSOLIDATED	12.0	0.0	
706.0	CARBONDALE		GRAY SHALE	3.0	12.0	
703.0	CARBONDALE		SANDSTONE	4.3	15.0	
698.7	CARBONDALE		LIMESTONE	0.7	19.3	
698.0	CARBONDALE		GRAY SHALE	42.0	20.0	
656.0	CARBONDALE		SANDSTONE	4.5	62.0	
651.5	CARBONDALE		GRAY SHALE	42.0	66.5	
609.5	CARBONDALE		LIMESTONE	1.5	108.5	
608.0	CARBONDALE		GRAY SHALE	30.7	110.0	
577.3	CARBONDALE	ST. DAVID	LIMESTONE	0.3	140.7	"CAP ROCK"
577.0	CARBONDALE		SHALE	2.5	141.0	DARK
574.5	CARBONDALE	TURNER MINE	BLACK SHALE	3.8	143.5	FISSILE
570.7	CARBONDALE	SPRINGFIELD	COAL	1.7	147.3	
569.0	CARBONDALE		UNDERCLAY	2.0	149.0	

MAPID: 05785963000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 15 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.044216 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683808 DATE COLLECTED: 6 / 24 / 1975

SURFACE ELEVATION (FT.): 757.3 LOGGED (FT.): 125.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23410 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
757.3	PLEISTOCENE		SOIL	1.0	0.0	
756.3	PLEISTOCENE		CLAY	25.0	1.0	
731.3	PLEISTOCENE		CLAY & GRAVEL	19.0	26.0	
712.3	PLEISTOCENE		BOULDER	4.5	45.0	LIMESTON
707.8	PLEISTOCENE		SAND & GRAVEL	11.5	49.5	
696.3	PLEISTOCENE		CLAY, SAND & GRAVEL	36.0	61.0	
660.3	CARBONDALE		GRAY SHALE	15.0	97.0	
645.3	CARBONDALE		DARK SHALE	13.0	112.0	
632.3	CARBONDALE	SPRINGFIELD	CAVITY	-	125.0	

MAPID: 05785956000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.044362

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.681142

DATE COLLECTED: 6 / 30 / 1975

SURFACE ELEVATION (FT.): 756.2 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22970

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
756.2	PLEISTOCENE		SANDY CLAY	29.4	0.0	
726.8	PLEISTOCENE		CLAY, SAND & GRAVEL	22.6	29.4	
704.2	SHELBURN		SHALE	9.9	52.0	SOFT
694.3	CARBONDALE	HERRIN	COAL	1.5	61.9	
692.8	CARBONDALE	HERRIN	BLUE BAND	0.2	63.4	
692.6	CARBONDALE	HERRIN	COAL	1.9	63.6	
690.7	CARBONDALE		UNDERCLAY	2.5	65.5	
688.2	CARBONDALE		GRAY SHALE	2.0	68.0	

MAPID: 05785957000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.05852

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683814

DATE COLLECTED: 6 / 26 / 1975

SURFACE ELEVATION (FT.): 717.8 LOGGED (FT.): 40.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23224

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.8	PLEISTOCENE		CLAY	5.3	0.0	
712.5	CARBONDALE		SANDSTONE	6.2	5.3	
706.3	CARBONDALE		SHALE & SANDSTONE	18.2	11.5	
688.1	CARBONDALE	BRERETON	LIMESTONE	3.1	29.7	
685.0	CARBONDALE		CLAYSTONE	0.6	32.8	WHITE TOP
684.4	CARBONDALE	HERRIN	COAL	4.3	33.4	
680.1	CARBONDALE		UNDERCLAY	2.3	37.7	

MAPID: 05785958000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.056216

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683882

DATE COLLECTED: 6 / 26 / 1975

SURFACE ELEVATION (FT.): 720.9 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23225

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.9	PLEISTOCENE		CLAY	7.5	0.0	
713.4	CARBONDALE		GRAY SHALE	10.2	7.5	
703.2	CARBONDALE		SANDSTONE	7.2	17.7	
696.0	CARBONDALE		SHALE & SANDSTONE	19.6	24.9	
676.4	CARBONDALE	BRERETON	LIMESTONE	0.6	44.5	
675.8	CARBONDALE		CLAYSTONE	0.6	45.1	WHITE TOP
675.2	CARBONDALE	HERRIN	COAL	3.1	45.7	
672.1	CARBONDALE		UNDERCLAY	1.2	48.8	

MAPID: 05785959000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.057398

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683893

DATE COLLECTED: 6 / 27 / 1975

SURFACE ELEVATION (FT.): 717.5 LOGGED (FT.): 108.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23226

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.5	PLEISTOCENE		CLAY	8.5	0.0	
709.0	CARBONDALE		SHALE & SANDSTONE	23.2	8.5	
685.8	CARBONDALE	BRERETON	LIMESTONE	3.2	31.7	
682.6	CARBONDALE		CLAYSTONE	0.9	34.9	WHITE TOP
681.7	CARBONDALE	HERRIN	COAL	3.1	35.8	BROKEN
678.6	CARBONDALE		UNDERCLAY	1.6	38.9	
677.0	CARBONDALE		SHALE & SANDSTONE	33.5	40.5	
643.5	CARBONDALE		DARK SHALE	25.0	74.0	
618.5	CARBONDALE		DARK SHALE	1.8	99.0	
616.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	100.8	
615.3	CARBONDALE	SPRINGFIELD	COAL	3.9	102.2	
611.4	CARBONDALE		UNDERCLAY	1.9	106.1	

MAPID: 05785967000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.044365

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.681984

DATE COLLECTED: 6 / 30 / 1975

SURFACE ELEVATION (FT.): 759.7 LOGGED (FT.): 116.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23416

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
759.7	PLEISTOCENE		SOIL	1.0	0.0	
758.7	PLEISTOCENE		CLAY	25.0	1.0	YELLOW
733.7	PLEISTOCENE		CLAY	24.0	26.0	GRAY
709.7	PLEISTOCENE		CLAY, SAND & GRAVEL	18.0	50.0	
691.7			GRAY SHALE	39.0	68.0	
652.7			DARK SHALE	9.0	107.0	

MAPID: 05785968000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.044469

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680016

DATE COLLECTED: 6 / 30 / 1975

SURFACE ELEVATION (FT.): 754.3 LOGGED (FT.): 124.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23417

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
754.3	PLEISTOCENE		SOIL	1.0	0.0	
753.3	PLEISTOCENE		CLAY	18.0	1.0	
735.3	PLEISTOCENE		CLAY & GRAVEL	39.0	19.0	
696.3	SHELBURN		GRAY SHALE	6.8	58.0	
689.5	CARBONDALE	ANNA	BLACK SHALE	0.8	64.8	
688.7	CARBONDALE	HERRIN	COAL	1.8	65.6	
686.9	CARBONDALE	HERRIN	BLUE BAND	0.2	67.4	
686.7	CARBONDALE	HERRIN	COAL	1.4	67.6	
685.3	CARBONDALE		UNDERCLAY	2.6	69.0	
682.7	CARBONDALE		GRAY SHALE	1.0	71.6	
681.7	CARBONDALE		SANDSTONE	2.0	72.6	
679.7	CARBONDALE		GRAY SHALE	19.0	74.6	
660.7	CARBONDALE		SHALE & SANDSTONE	14.0	93.6	
646.7	CARBONDALE		DARK SHALE	14.6	107.6	
632.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	122.2	
631.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	122.6	
629.7	CARBONDALE	SPRINGFIELD	CAVITY	-	124.6	

MAPID: 05785969000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.044501

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678032

DATE COLLECTED: 6 / 30 / 1975

SURFACE ELEVATION (FT.): 762.9 LOGGED (FT.): 139.2

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23418

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
762.9	PLEISTOCENE		SOIL	1.0	0.0
761.9	PLEISTOCENE		CLAY	21.0	1.0
740.9	PLEISTOCENE		CLAY & GRAVEL	14.0	22.0
726.9	PLEISTOCENE		SAND & GRAVEL	7.0	36.0
719.9	PLEISTOCENE		CLAY, SAND & GRAVEL	26.0	43.0
693.9	PLEISTOCENE		BOULDER	0.8	69.0
693.1	PLEISTOCENE		CLAY & GRAVEL	33.2	69.8
659.9	CARBONDALE		GRAY SHALE	22.0	103.0
637.9	CARBONDALE		DARK SHALE	14.2	125.0
623.7	CARBONDALE	SPRINGFIELD	CAVITY	-	139.2

MAPID: 05785970000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.055036

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672795

DATE COLLECTED: 7 / 2 / 1975

SURFACE ELEVATION (FT.): 762.3 LOGGED (FT.): 155.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23421

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
762.3	PLEISTOCENE		SOIL	1.0	0.0	
761.3	PLEISTOCENE		CLAY	29.0	1.0	
732.3	PLEISTOCENE		CLAY & GRAVEL	13.0	30.0	
719.3	MODESTO		BLACK SHALE	1.5	43.0	
717.8	SHELBURN	DANVILLE	COAL	1.5	44.5	
716.3	SHELBURN		UNDERCLAY	2.0	46.0	
714.3	SHELBURN		GRAY SHALE	9.0	48.0	
705.3	SHELBURN		SHALE	1.5	57.0	RED
703.8	SHELBURN		GRAY SHALE	5.0	58.5	
698.8	SHELBURN		SHALE & SANDSTONE	20.5	63.5	
678.3	SHELBURN	BRERETON	LIMESTONE	0.6	84.0	
677.7	CARBONDALE		CLAYSTONE	1.0	84.6	WHITE TOP
676.7	CARBONDALE	HERRIN	COAL	1.6	85.6	
675.1	CARBONDALE	HERRIN	BLUE BAND	0.2	87.2	
674.9	CARBONDALE	HERRIN	COAL	1.4	87.4	
673.5	CARBONDALE		UNDERCLAY	2.2	88.8	
671.3	CARBONDALE		GRAY SHALE	2.0	91.0	
669.3	CARBONDALE		SANDSTONE	10.0	93.0	
659.3	CARBONDALE		GRAY SHALE	33.0	103.0	
626.3	CARBONDALE		DARK SHALE	9.8	136.0	
616.5	CARBONDALE	ST. DAVID	LIMESTONE	1.6	145.8	
614.9	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	147.4	
614.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	148.2	
613.3	CARBONDALE	SPRINGFIELD	COAL	4.0	149.0	
609.3	CARBONDALE		UNDERCLAY	2.0	153.0	

MAPID: 05785971000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.053015

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673725

DATE COLLECTED: 7 / 2 / 1975

SURFACE ELEVATION (FT.): 764.4 LOGGED (FT.): 156.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23422

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
764.4	PLEISTOCENE		SOIL	1.0	0.0	
763.4	PLEISTOCENE		CLAY	22.0	1.0	
741.4	PLEISTOCENE		CLAY, SAND & GRAVEL	28.0	23.0	
713.4	CARBONDALE		GRAY SHALE	15.0	51.0	
698.4	CARBONDALE		SANDSTONE	4.0	66.0	
694.4	CARBONDALE		SHALE & SANDSTONE	11.0	70.0	
683.4	CARBONDALE	BRERETON	LIMESTONE	2.7	81.0	
680.7	CARBONDALE		CLAYSTONE	1.0	83.7	WHITE TOP
679.7	CARBONDALE	HERRIN	COAL	2.3	84.7	
677.4	CARBONDALE	HERRIN	BLUE BAND	0.2	87.0	
677.2	CARBONDALE	HERRIN	COAL	1.3	87.2	
675.9	CARBONDALE		UNDERCLAY	2.5	88.5	
673.4	CARBONDALE		GRAY SHALE	2.0	91.0	
671.4	CARBONDALE		LIMESTONE	2.4	93.0	
669.0	CARBONDALE		SHALE & SANDSTONE	15.6	95.4	
653.4	CARBONDALE		CALCAREOUS SHALE	36.0	111.0	
617.4	CARBONDALE	ST. DAVID	LIMESTONE	0.5	147.0	
616.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	147.5	
615.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	149.0	
614.6	CARBONDALE	SPRINGFIELD	COAL	3.9	149.8	
610.7	CARBONDALE		UNDERCLAY	2.3	153.7	

MAPID: 05785972000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.05014 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674991 DATE COLLECTED: 7 / 3 / 1975

SURFACE ELEVATION (FT.): 765.4 LOGGED (FT.): 145.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23423 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
765.4	PLEISTOCENE		SOIL	1.0	0.0	
764.4	PLEISTOCENE		CLAY	26.0	1.0	
738.4	PLEISTOCENE		CLAY & GRAVEL	24.0	27.0	
714.4	CARBONDALE		GRAY SHALE	2.0	51.0	
712.4	CARBONDALE		SANDSTONE	14.0	53.0	SOFT
698.4	CARBONDALE		GRAY SHALE	10.0	67.0	
688.4	CARBONDALE	BRERETON	LIMESTONE	1.0	77.0	
687.4	CARBONDALE		CLAYSTONE	1.8	78.0	WHITE TOP
685.6	CARBONDALE	HERRIN	COAL	1.6	79.8	
684.0	CARBONDALE		UNDERCLAY	2.6	81.4	
681.4	CARBONDALE		SANDSTONE	13.0	84.0	
668.4	CARBONDALE		CALCAREOUS SHALE	29.0	97.0	
639.4	CARBONDALE		DARK SHALE	9.5	126.0	
629.9	CARBONDALE	ST. DAVID	LIMESTONE	0.5	135.5	
629.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	136.0	
627.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	137.6	
626.9	CARBONDALE	SPRINGFIELD	COAL	4.2	138.5	
622.7	CARBONDALE		UNDERCLAY	2.3	142.7	

MAPID: 05785973000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.048205

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675886

DATE COLLECTED: 7 / 3 / 1975

SURFACE ELEVATION (FT.): 768.3 LOGGED (FT.): 150.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23424

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 26

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
768.3	PLEISTOCENE		SOIL	1.0	0.0	
767.3	PLEISTOCENE		CLAY	29.0	1.0	
738.3	PLEISTOCENE		CLAY & GRAVEL	41.0	30.0	
697.3	CARBONDALE		GRAY SHALE	4.5	71.0	
692.8	CARBONDALE	BRERETON	LIMESTONE	4.5	75.5	
688.3	CARBONDALE		CLAYSTONE	2.0	80.0	WHITE TOP
686.3	CARBONDALE	HERRIN	COAL	2.1	82.0	
684.2	CARBONDALE	HERRIN	BLUE BAND	0.2	84.1	
684.0	CARBONDALE	HERRIN	COAL	1.5	84.3	
682.5	CARBONDALE		UNDERCLAY	2.2	85.8	
680.3	CARBONDALE		GRAY SHALE	2.0	88.0	
678.3	CARBONDALE		SANDSTONE	11.0	90.0	
667.3	CARBONDALE		CALCAREOUS SHALE	27.0	101.0	
640.3	CARBONDALE		DARK SHALE	12.6	128.0	
627.7	CARBONDALE	ST. DAVID	LIMESTONE	0.5	140.6	
627.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	141.1	
625.9	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	142.4	
625.0	CARBONDALE	SPRINGFIELD	COAL	4.0	143.3	
621.0	CARBONDALE		UNDERCLAY	2.7	147.3	

MAPID: 05785997000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.059217

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670863

DATE COLLECTED: 7 / 1 / 1975

SURFACE ELEVATION (FT.): 752.7 LOGGED (FT.): 145.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23420

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FOROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.7	PLEISTOCENE		SOIL	1.0	0.0	
751.7	PLEISTOCENE		CLAY	25.0	1.0	
726.7	PLEISTOCENE		CLAY & GRAVEL	1.0	26.0	
725.7	PLEISTOCENE		SAND & GRAVEL	4.0	27.0	
721.7	PLEISTOCENE		CLAY, SAND & GRAVEL	20.0	31.0	
701.7	CARBONDALE		SANDSTONE	2.0	51.0	HARD
699.7	CARBONDALE		SANDSTONE	10.0	53.0	SOFT
689.7	CARBONDALE		GRAY SHALE	7.0	63.0	
682.7	CARBONDALE		DARK SHALE	4.0	70.0	
678.7	CARBONDALE	BRERETON	LIMESTONE	2.0	74.0	
676.7	CARBONDALE		CLAYSTONE	1.2	76.0	WHITE TOP
675.5	CARBONDALE	HERRIN	COAL	2.8	77.2	
672.7	CARBONDALE		UNDERCLAY	2.0	80.0	
670.7	CARBONDALE		GRAY SHALE	3.0	82.0	
667.7	CARBONDALE		SANDSTONE	15.0	85.0	
652.7	CARBONDALE		GRAY SHALE	26.0	100.0	
626.7	CARBONDALE		DARK SHALE	9.0	126.0	
617.7	CARBONDALE	ST. DAVID	LIMESTONE	0.5	135.0	
617.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	135.5	
615.3	CARBONDALE		BLACK SHALE	0.8	137.4	
614.5	CARBONDALE	SPRINGFIELD	COAL	4.0	138.2	
610.5	CARBONDALE		UNDERCLAY	2.8	142.2	

MAPID: 05785998000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.062993

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669116

DATE COLLECTED: 7 / 7 / 1975

SURFACE ELEVATION (FT.): 743.4 LOGGED (FT.): 136.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23425

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.4	PLEISTOCENE		SOIL	1.0	0.0	
742.4	PLEISTOCENE		CLAY	27.0	1.0	
715.4	PLEISTOCENE		CLAY & GRAVEL	40.0	28.0	
675.4	CARBONDALE	HERRIN	COAL	2.4	68.0	TOP ERODED
673.0	CARBONDALE		UNDERCLAY	2.0	70.4	
671.0	CARBONDALE		GRAY SHALE	3.6	72.4	
667.4	CARBONDALE		SANDSTONE	20.0	76.0	SOFT
647.4	CARBONDALE		SANDY SHALE	6.0	96.0	
641.4	CARBONDALE		DARK SHALE	25.0	102.0	
616.4	CARBONDALE	ST. DAVID	LIMESTONE	0.7	127.0	
615.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	127.7	
614.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	129.2	
613.4	CARBONDALE	SPRINGFIELD	COAL	3.4	130.0	
610.0	CARBONDALE		UNDERCLAY	2.6	133.4	

MAPID: 05785999000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.061054

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670019

DATE COLLECTED: 7 / 7 / 1975

SURFACE ELEVATION (FT.): 747.7 LOGGED (FT.): 141.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23426

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.7	PLEISTOCENE		SOIL	1.0	0.0	
746.7	PLEISTOCENE		CLAY	15.0	1.0	
731.7	PLEISTOCENE		CLAY & GRAVEL	17.0	16.0	
714.7	SHELBURN		SANDSTONE	22.0	33.0	SOFT
692.7	SHELBURN		SANDY SHALE	14.0	55.0	
678.7	CARBONDALE	ANNA	DARK SHALE	3.0	69.0	
675.7	CARBONDALE	HERRIN	COAL	2.2	72.0	
673.5	CARBONDALE	HERRIN	BLUE BAND	0.2	74.2	
673.3	CARBONDALE	HERRIN	COAL	1.1	74.4	
672.2	CARBONDALE		UNDERCLAY	2.6	75.5	
669.6	CARBONDALE		GRAY SHALE	4.9	78.1	
664.7	CARBONDALE		SANDSTONE	8.0	83.0	SOFT
656.7	CARBONDALE		GRAY SHALE	32.0	91.0	
624.7	CARBONDALE		DARK SHALE	9.0	123.0	
615.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	132.0	
615.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	132.4	
613.6	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	134.1	
612.7	CARBONDALE	SPRINGFIELD	COAL	3.7	135.0	
609.0	CARBONDALE		UNDERCLAY	2.3	138.7	

MAPID: 0578600000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.058939

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.679936

DATE COLLECTED: 1 / 8 / 1978

SURFACE ELEVATION (FT.): 732.3 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28221

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.3	PLEISTOCENE		SOIL	13.5	0.0	
718.8	PLEISTOCENE		CLAY	4.0	13.5	
714.8	CARBONDALE		GRAY SHALE	5.5	17.5	
709.3	CARBONDALE		SANDSTONE	8.5	23.0	
700.8	CARBONDALE		GRAY SHALE	14.6	31.5	
686.2	CARBONDALE	BRERETON	LIMESTONE	2.7	46.1	
683.5	CARBONDALE		CLAYSTONE	0.3	48.8	WHITE TOP
683.2	CARBONDALE	HERRIN	COAL	2.4	49.1	
680.8	CARBONDALE	HERRIN	BLUE BAND	0.2	51.5	
680.6	CARBONDALE	HERRIN	COAL	1.2	51.7	
679.4	CARBONDALE		UNDERCLAY	2.1	52.9	
677.3	CARBONDALE		GRAY SHALE	2.2	55.0	
675.1	CARBONDALE		LIMESTONE	3.1	57.2	
672.0	CARBONDALE		GRAY SHALE	29.7	60.3	
642.3	CARBONDALE		DARK SHALE	16.8	90.0	
625.5	CARBONDALE	ST. DAVID	LIMESTONE	0.8	106.8	
624.7	CARBONDALE	TURNER MINE	SHALE	2.1	107.6	
622.6	CARBONDALE	SPRINGFIELD	COAL	4.0	109.7	
618.6	CARBONDALE		SHALE/UNDERCLAY	6.3	113.7	

MAPID: 05786001000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.061225

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.679969

DATE COLLECTED: 1 / 10 / 1979

SURFACE ELEVATION (FT.): 744.7 LOGGED (FT.): 130.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28222

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.7	PLEISTOCENE		SOIL	22.0	0.0	
722.7	MODESTO		DARK SHALE	0.8	22.0	
721.9	CARBONDALE	DANVILLE	COAL	1.5	22.8	SOFT
720.4	CARBONDALE		GRAY SHALE	10.1	24.3	
710.3	CARBONDALE		SANDSTONE	7.6	34.4	
702.7	CARBONDALE		GRAY SHALE	10.0	42.0	
692.7	CARBONDALE		LIMESTONE	0.3	52.0	
692.4	CARBONDALE		GRAY SHALE	8.7	52.3	
683.7	CARBONDALE	HERRIN	COAL	2.6	61.0	
681.1	CARBONDALE	HERRIN	BLUE BAND	0.2	63.6	
680.9	CARBONDALE	HERRIN	COAL	1.6	63.8	
679.3	CARBONDALE		UNDERCLAY	1.6	65.4	
677.7	CARBONDALE		GRAY SHALE	4.8	67.0	
672.9	CARBONDALE		LIMESTONE	2.2	71.8	
670.7	CARBONDALE		GRAY SHALE	25.3	74.0	
645.4	CARBONDALE		DARK SHALE	21.1	99.3	
624.3	CARBONDALE	ST. DAVID	LIMESTONE	0.5	120.4	
623.8	CARBONDALE	TURNER MINE	SHALE	2.9	120.9	
620.9	CARBONDALE	SPRINGFIELD	COAL	3.7	123.8	
617.2	CARBONDALE		UNDERCLAY	2.5	127.5	

MAPID: 05786015000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.044455

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.681939

DATE COLLECTED: 1 / 8 / 1979

SURFACE ELEVATION (FT.): 738.8 LOGGED (FT.): 121.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28349

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.8	PLEISTOCENE		CLAY	24.7	0.0	
714.1	CARBONDALE		GRAY SHALE	22.9	24.7	
691.2	CARBONDALE	BRERETON	LIMESTONE	2.2	47.6	
689.0	CARBONDALE		CLAYSTONE	0.5	49.8	WHITE TOP
688.5	CARBONDALE	ANNA	DARK SHALE	1.7	50.3	
686.8	CARBONDALE	HERRIN	COAL	2.6	52.0	
684.2	CARBONDALE	HERRIN	BLUE BAND	0.2	54.6	
684.0	CARBONDALE	HERRIN	COAL	1.7	54.8	
682.3	CARBONDALE		UNDERCLAY	1.8	56.5	
680.5	CARBONDALE		MICACEOUS SHALE	38.2	58.3	
642.3	CARBONDALE		DARK SHALE	16.5	96.5	
625.8	CARBONDALE	ST. DAVID	LIMESTONE	0.3	113.0	
625.5	CARBONDALE		GRAY SHALE	0.7	113.3	
624.8	CARBONDALE	TURNER MINE	DARK SHALE	1.1	114.0	
623.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	115.1	
622.5	CARBONDALE	SPRINGFIELD	COAL	3.5	116.3	
619.0	CARBONDALE		UNDERCLAY	1.2	119.8	

MAPID: 05786016000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.049232

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.681978

DATE COLLECTED: 1 / 9 / 1979

SURFACE ELEVATION (FT.): 737.5 LOGGED (FT.): 121.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28350

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 1 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.5	PLEISTOCENE		CLAY	25.0	0.0	
712.5	CARBONDALE		GRAY SHALE	24.1	25.0	
688.4	CARBONDALE	BRERETON	LIMESTONE	1.9	49.1	
686.5	CARBONDALE		CLAYSTONE	0.5	51.0	WHITE TOP
686.0	CARBONDALE	ANNA	DARK SHALE	1.2	51.5	
684.8	CARBONDALE	HERRIN	COAL	2.4	52.7	
682.4	CARBONDALE	HERRIN	BLUE BAND	0.2	55.1	
682.2	CARBONDALE	HERRIN	COAL	1.7	55.3	
680.5	CARBONDALE		UNDERCLAY	1.7	57.0	
678.8	CARBONDALE		SHALE & SANDSTONE	36.3	58.7	
642.5	CARBONDALE		DARK SHALE	17.7	95.0	
624.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	112.7	
624.4	CARBONDALE		GRAY SHALE	0.7	113.1	
623.7	CARBONDALE	TURNER MINE	DARK SHALE	0.6	113.8	
623.1	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	114.4	
621.1	CARBONDALE	SPRINGFIELD	COAL	3.3	116.4	
617.8	CARBONDALE		UNDERCLAY	1.3	119.7	

MAPID: 05786023000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.061343

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678396

DATE COLLECTED: 1 / 18 / 1979

SURFACE ELEVATION (FT.): 745.1 LOGGED (FT.): 127.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28357

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
745.1	PLEISTOCENE		CLAY	24.0	0.0
721.1	SHELBURN		GRAY SHALE	33.5	24.0
687.6	CARBONDALE	ANNA	DARK SHALE	2.3	57.5
685.3	CARBONDALE	HERRIN	COAL	2.2	59.8
683.1	CARBONDALE	HERRIN	BLUE BAND	0.2	62.0
682.9	CARBONDALE	HERRIN	COAL	1.6	62.2
681.3	CARBONDALE		UNDERCLAY	1.7	63.8
679.6	CARBONDALE		SHALE & SANDSTONE	39.3	65.5
640.3	CARBONDALE		DARK SHALE	13.6	104.8
626.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	118.4
626.3	CARBONDALE		GRAY SHALE	0.5	118.8
625.8	CARBONDALE	TURNER MINE	DARK SHALE	1.2	119.3
624.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	120.5
623.3	CARBONDALE	SPRINGFIELD	COAL	3.5	121.8
619.8	CARBONDALE		UNDERCLAY	1.7	125.3

MAPID: 05786024000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.063456

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678466

DATE COLLECTED: 1 / 18 / 1979

SURFACE ELEVATION (FT.): 744.1 LOGGED (FT.): 126.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28358

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
744.1	PLEISTOCENE		CLAY	23.0	0.0
721.1	SHELBURN		SHALE & SANDSTONE	36.9	23.0
684.2	CARBONDALE	HERRIN	COAL	2.3	59.9
681.9	CARBONDALE	HERRIN	BLUE BAND	0.2	62.2
681.7	CARBONDALE	HERRIN	COAL	1.6	62.4
680.1	CARBONDALE		UNDERCLAY	1.6	64.0
678.5	CARBONDALE		SHALE & SANDSTONE	37.9	65.6
640.6	CARBONDALE		DARK SHALE	14.9	103.5
625.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	118.4
625.3	CARBONDALE		GRAY SHALE	0.6	118.8
624.7	CARBONDALE	TURNER MINE	DARK SHALE	0.9	119.4
623.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	120.3
622.7	CARBONDALE	SPRINGFIELD	COAL	3.2	121.4
619.5	CARBONDALE		UNDERCLAY	1.4	124.6

MAPID: 05786026000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.067844

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674848

DATE COLLECTED: 1 / 22 / 1979

SURFACE ELEVATION (FT.): 737.1 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28360

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
737.1	PLEISTOCENE		CLAY	20.5	0.0
716.6	SHELBURN		GRAY SHALE	26.9	20.5
689.7	CARBONDALE	ANNA	DARK SHALE	0.5	47.4
689.2	CARBONDALE	HERRIN	COAL	2.0	47.9
687.2	CARBONDALE	HERRIN	BLUE BAND	0.2	49.9
687.0	CARBONDALE	HERRIN	COAL	1.9	50.1
685.1	CARBONDALE		UNDERCLAY	1.6	52.0
683.5	CARBONDALE		SHALE & SANDSTONE	40.4	53.6
643.1	CARBONDALE		DARK SHALE	12.8	94.0
630.3	CARBONDALE	ST. DAVID	LIMESTONE	0.7	106.8
629.6	CARBONDALE	TURNER MINE	DARK SHALE	1.9	107.5
627.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	109.4
627.1	CARBONDALE	SPRINGFIELD	COAL	3.8	110.0
623.3	CARBONDALE		UNDERCLAY	1.2	113.8

MAPID: 05786027000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.065367

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674595

DATE COLLECTED: 1 / 25 / 1979

SURFACE ELEVATION (FT.): 742.1 LOGGED (FT.): 128.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28361

WELL TYPE: Coal Test

COMMENT: LOCATIONS D.I.G FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.1	PLEISTOCENE		CLAY	20.5	0.0	YELLOW
721.6	PLEISTOCENE		CLAY	6.5	20.5	GRAY
715.1	SHELBURN		SHALE & SANDSTONE	31.3	27.0	
683.8	SHELBURN		SLATY SHALE	0.8	58.3	
683.0	CARBONDALE	HERRIN	COAL	2.3	59.1	
680.7	CARBONDALE	HERRIN	BLUE BAND	0.2	61.4	
680.5	CARBONDALE	HERRIN	COAL	1.8	61.6	
678.7	CARBONDALE		UNDERCLAY	1.7	63.4	
677.0	CARBONDALE		SHALE & SANDSTONE	39.4	65.1	
637.6	CARBONDALE		DARK SHALE	14.2	104.5	
623.4	CARBONDALE	ST. DAVID	LIMESTONE	0.6	118.7	
622.8	CARBONDALE	TURNER MINE	DARK SHALE	1.7	119.3	
621.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	121.0	
619.5	CARBONDALE	SPRINGFIELD	COAL	3.8	122.6	
615.7	CARBONDALE		UNDERCLAY	1.6	126.4	

MAPID: 05786032000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.061213

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676642

DATE COLLECTED: 1 / 29 / 1979

SURFACE ELEVATION (FT.): 744.6 LOGGED (FT.): 121.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28365

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
744.6	PLEISTOCENE		CLAY	28.0	0.0
716.6	SHELBURN		GRAY SHALE	26.8	28.0
689.8	CARBONDALE	ANNA	DARK SHALE	0.6	54.8
689.2	CARBONDALE	HERRIN	COAL	2.2	55.4
687.0	CARBONDALE	HERRIN	BLUE BAND	0.2	57.6
686.8	CARBONDALE	HERRIN	COAL	1.7	57.8
685.1	CARBONDALE		UNDERCLAY	1.7	59.5
683.4	CARBONDALE		SHALE & SANDSTONE	40.8	61.2
642.6	CARBONDALE		DARK SHALE	11.0	102.0
631.6	CARBONDALE	ST. DAVID	LIMESTONE	0.4	113.0
631.2	CARBONDALE	TURNER MINE	DARK SHALE	1.6	113.4
629.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	115.0
628.3	CARBONDALE	SPRINGFIELD	COAL	3.4	116.3
624.9	CARBONDALE		UNDERCLAY	1.3	119.7

MAPID: 05786262000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 16 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.089456

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678305

DATE COLLECTED: 1 / 31 / 1979

SURFACE ELEVATION (FT.): 713.9 LOGGED (FT.): 92.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28234

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
713.9	PLEISTOCENE		CLAY & GRAVEL	23.6	0.0
690.3	PLEISTOCENE		SANDY CLAY	43.2	23.6
647.1	CARBONDALE		DARK SHALE	4.8	66.8
642.3	CARBONDALE		LIMESTONE	1.0	71.6
641.3	CARBONDALE		DARK SHALE	11.4	72.6
629.9	CARBONDALE	ST. DAVID	LIMESTONE	0.9	84.0
629.0	CARBONDALE	TURNER MINE	SHALE	2.3	84.9
626.7	CARBONDALE	SPRINGFIELD	COAL	3.6	87.2
623.1	CARBONDALE		UNDERCLAY	1.2	90.8

MAPID: 05785975000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.070474 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683978 DATE COLLECTED: 6 / 20 / 1975

SURFACE ELEVATION (FT.): 738.2 LOGGED (FT.): 122.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22961 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
738.2	PLEISTOCENE		SANDY CLAY	20.0	0.0
718.2	PLEISTOCENE		CLAY & GRAVEL	6.2	20.0
712.0	SHELBURN		SANDSTONE	3.8	26.2
708.2	SHELBURN		GRAY SHALE	8.3	30.0
699.9	SHELBURN		SHALE & SANDSTONE	13.7	38.3
686.2	CARBONDALE	ANNA	DARK SHALE	2.0	52.0
684.2	CARBONDALE	HERRIN	COAL	2.2	54.0
682.0	CARBONDALE	HERRIN	BLUE BAND	0.2	56.2
681.8	CARBONDALE	HERRIN	COAL	1.4	56.4
680.4	CARBONDALE		UNDERCLAY	2.2	57.8
678.2	CARBONDALE		GRAY SANDSTONE	20.0	60.0
658.2	CARBONDALE		SHALE & SANDSTONE	12.0	80.0
646.2	CARBONDALE		GRAY SHALE	1.8	92.0
644.4	CARBONDALE		LIMESTONE	0.3	93.8
644.1	CARBONDALE		DARK SHALE	18.9	94.1
625.2	CARBONDALE	ST. DAVID	LIMESTONE	0.3	113.0
624.9	CARBONDALE	TURNER MINE	DARK SHALE	1.1	113.3
623.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	114.4
622.2	CARBONDALE	SPRINGFIELD	COAL	3.8	116.0
618.4	CARBONDALE		UNDERCLAY	2.2	119.8

MAPID: 05785976000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.063574

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683953

DATE COLLECTED: 6 / 20 / 1975

SURFACE ELEVATION (FT.): 739.0 LOGGED (FT.): 63.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 22962

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.0	PLEISTOCENE		SANDY CLAY	15.0	0.0	
724.0	PLEISTOCENE		CLAY	3.0	15.0	
721.0	CARBONDALE	DANVILLE	COAL	1.0	18.0	SOFT AND BROKEN; TOP ERODED
720.0	CARBONDALE		GRAY SHALE	9.8	19.0	
710.2	CARBONDALE		SANDSTONE	11.2	28.8	
699.0	CARBONDALE		GRAY SHALE	12.8	40.0	
686.2	CARBONDALE	BRERETON	LIMESTONE	4.0	52.8	
682.2	CARBONDALE	HERRIN	COAL	2.6	56.8	
679.6	CARBONDALE	HERRIN	BLUE BAND	0.2	59.4	
679.4	CARBONDALE	HERRIN	COAL	1.6	59.6	
677.8	CARBONDALE		UNDERCLAY	1.8	61.2	

MAPID: 05785986000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.065795

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683959

DATE COLLECTED: 6 / 20 / 1975

SURFACE ELEVATION (FT.): 739.6 LOGGED (FT.): 127.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23216

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.6	PLEISTOCENE		CLAY	15.5	0.0	YELLOW
724.1	PLEISTOCENE		CLAY	18.1	15.5	GRAY
706.0	SHELBURN		DARK SHALE	2.0	33.6	
704.0	CARBONDALE	DANVILLE	COAL	1.2	35.6	
702.8	CARBONDALE		UNDERCLAY	1.5	36.8	
701.3	CARBONDALE		GRAY SHALE	21.7	38.3	
679.6	CARBONDALE	ANNA	DARK SHALE	0.4	60.0	
679.2	CARBONDALE	HERRIN	COAL	3.9	60.4	
675.3	CARBONDALE		UNDERCLAY	1.7	64.3	
673.6	CARBONDALE		SHALE & SANDSTONE	18.0	66.0	
655.6	CARBONDALE		SANDSTONE	3.2	84.0	
652.4	CARBONDALE		GRAY SHALE	12.3	87.2	
640.1	CARBONDALE		DARK SHALE	19.1	99.5	
621.0	CARBONDALE	ST. DAVID	LIMESTONE	0.6	118.6	
620.4	CARBONDALE	TURNER MINE	DARK SHALE	1.0	119.2	
619.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	120.2	
618.0	CARBONDALE	SPRINGFIELD	COAL	4.1	121.6	
613.9	CARBONDALE		UNDERCLAY	1.3	125.7	

MAPID: 05785987000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.061113

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683951

DATE COLLECTED: 6 / 20 / 1975

SURFACE ELEVATION (FT.): 738.5 LOGGED (FT.): 122.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23217

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.5	PLEISTOCENE		CLAY	12.5	0.0	YELLOW
726.0	PLEISTOCENE		CLAY	10.5	12.5	GRAY
715.5	SHELBURN		GRAY SHALE	6.1	23.0	
709.4	SHELBURN		SANDSTONE	4.4	29.1	
705.0	SHELBURN		SHALE & SANDSTONE	18.6	33.5	
686.4	CARBONDALE	HERRIN	COAL	2.1	52.1	
684.3	CARBONDALE	HERRIN	BLUE BAND	0.2	54.2	
684.1	CARBONDALE	HERRIN	COAL	1.7	54.4	
682.4	CARBONDALE		UNDERCLAY	1.8	56.1	
680.6	CARBONDALE		SHALE & SANDSTONE	40.8	57.9	
639.8	CARBONDALE		DARK SHALE	14.1	98.7	
625.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	112.8	
625.3	CARBONDALE	TURNER MINE	DARK SHALE	1.8	113.2	
623.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	115.0	
622.0	CARBONDALE	SPRINGFIELD	COAL	3.9	116.5	
618.1	CARBONDALE		UNDERCLAY	1.6	120.4	

MAPID: 05785988000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.058891

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683944

DATE COLLECTED: 6 / 20 / 1975

SURFACE ELEVATION (FT.): 737.5 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23218

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.5	PLEISTOCENE		CLAY	14.5	0.0	YELLOW
723.0	PLEISTOCENE		CLAY	8.5	14.5	GRAY
714.5	SHELBURN		GRAY SHALE	4.0	23.0	
710.5	SHELBURN		SANDSTONE	10.7	27.0	
699.8	SHELBURN		SHALE & SANDSTONE	14.3	37.7	
685.5	CARBONDALE	ANNA	DARK SHALE	2.9	52.0	
682.6	CARBONDALE	HERRIN	COAL	2.4	54.9	
680.2	CARBONDALE	HERRIN	BLUE BAND	0.2	57.3	
680.0	CARBONDALE	HERRIN	COAL	1.8	57.5	
678.2	CARBONDALE		UNDERCLAY	0.7	59.3	

MAPID: 05785989000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.056289

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.683937

DATE COLLECTED: 6 / 24 / 1975

SURFACE ELEVATION (FT.): 737.6 LOGGED (FT.): 125.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23221

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.6	PLEISTOCENE		CLAY	16.5	0.0	YELLOW
721.1	PLEISTOCENE		CLAY	9.2	16.5	GRAY
711.9	CARBONDALE		GRAY SHALE	1.3	25.7	
710.6	CARBONDALE		SANDSTONE	15.9	27.0	
694.7	CARBONDALE		GRAY SHALE	11.1	42.9	
683.6	CARBONDALE	BRERETON	LIMESTONE	1.0	54.0	
682.6	CARBONDALE		CLAYSTONE	0.5	55.0	WHITE TOP
682.1	CARBONDALE	HERRIN	COAL	3.2	55.5	
678.9	CARBONDALE		UNDERCLAY	1.7	58.7	
677.2	CARBONDALE		SHALE & SANDSTONE	33.9	60.4	
643.3	CARBONDALE		LIMESTONE	0.4	94.3	
642.9	CARBONDALE		DARK SHALE	20.8	94.7	
622.1	CARBONDALE	TURNER MINE	DARK SHALE	1.0	115.5	
621.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	116.5	
619.3	CARBONDALE	SPRINGFIELD	COAL	4.2	118.3	
615.1	CARBONDALE		UNDERCLAY	2.5	122.5	

MAPID: 05785993000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.072609 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671815 DATE COLLECTED: 6 / 19 / 1975

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 111.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23401 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
725.0	PLEISTOCENE		SOIL	1.0	0.0
724.0	PLEISTOCENE		CLAY	14.0	1.0
710.0	SHELURN		SANDSTONE	13.0	15.0
697.0	MODESTO		GRAY SHALE	13.0	28.0
684.0	CARBONDALE	ANNA	DARK SHALE	2.4	41.0
681.6	CARBONDALE	HERRIN	COAL	2.2	43.4
679.4	CARBONDALE	HERRIN	BLUE BAND	0.2	45.6
679.2	CARBONDALE	HERRIN	COAL	1.6	45.8
677.6	CARBONDALE		UNDERCLAY	2.6	47.4
675.0	CARBONDALE		GRAY SHALE	2.0	50.0
673.0	CARBONDALE		SANDSTONE	8.0	52.0
665.0	CARBONDALE		CALCAREOUS SHALE	16.0	60.0
649.0	CARBONDALE		DARK SHALE	25.5	76.0
623.5	CARBONDALE	ST. DAVID	LIMESTONE	0.5	101.5
623.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	102.0
621.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	104.0
620.1	CARBONDALE	SPRINGFIELD	COAL	3.9	104.9
616.2	CARBONDALE		UNDERCLAY	2.2	108.8

MAPID: 05785994000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.07204 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669139 DATE COLLECTED: 6 / 20 / 1975

SURFACE ELEVATION (FT.): 734.7 LOGGED (FT.): 123.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23404 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.7	PLEISTOCENE		SOIL	1.0	0.0	
733.7	PLEISTOCENE		CLAY	21.0	1.0	
712.7	CARBONDALE		GRAY SHALE	12.0	22.0	
700.7	CARBONDALE		SANDSTONE	7.0	34.0	
693.7	CARBONDALE		GRAY SHALE	10.0	41.0	
683.7	CARBONDALE	BRERETON	LIMESTONE	0.8	51.0	
682.9	CARBONDALE		CLAYSTONE	1.6	51.8	WHITE TOP
681.3	CARBONDALE	ANNA	BLACK SHALE	0.6	53.4	
680.7	CARBONDALE	HERRIN	COAL	1.7	54.0	
679.0	CARBONDALE	HERRIN	BLUE BAND	0.2	55.7	
678.8	CARBONDALE	HERRIN	COAL	1.4	55.9	
677.4	CARBONDALE		UNDERCLAY	1.7	57.3	
675.7	CARBONDALE		CALCAREOUS SHALE	41.0	59.0	
634.7	CARBONDALE		DARK SHALE	13.4	100.0	
621.3	CARBONDALE	ST. DAVID	LIMESTONE	0.6	113.4	
620.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	114.0	
618.9	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	115.8	
618.1	CARBONDALE	SPRINGFIELD	COAL	4.1	116.6	
614.0	CARBONDALE		UNDERCLAY	2.3	120.7	

MAPID: 05786002000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.063545

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.679986

DATE COLLECTED: 1 / 11 / 1979

SURFACE ELEVATION (FT.): 742.0 LOGGED (FT.): 123.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28223

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.0	PLEISTOCENE		SOIL	17.5	0.0	
724.5	CARBONDALE	DANVILLE	COAL	1.5	17.5	SOFT BROKEN; TOP ERODED
723.0	CARBONDALE		CLAYSTONE	8.5	19.0	
714.5	CARBONDALE		GRAY SHALE	2.8	27.5	
711.7	CARBONDALE		SANDSTONE	2.7	30.3	
709.0	CARBONDALE		SHALE & SANDSTONE	20.0	33.0	
689.0	CARBONDALE	ANNA	DARK SHALE	2.4	53.0	
686.6	CARBONDALE	HERRIN	COAL	2.2	55.4	
684.4	CARBONDALE	HERRIN	BLUE BAND	0.2	57.6	
684.2	CARBONDALE	HERRIN	COAL	1.8	57.8	
682.4	CARBONDALE		SHALE/UNDERCLAY	3.8	59.6	
678.6	CARBONDALE		SHALE & SANDSTONE	32.6	63.4	
646.0	CARBONDALE		DARK SHALE	18.4	96.0	
627.6	CARBONDALE	ST. DAVID	LIMESTONE	0.6	114.4	
627.0	CARBONDALE	TURNER MINE	SHALE	2.6	115.0	
624.4	CARBONDALE	SPRINGFIELD	COAL	3.8	117.6	
620.6	CARBONDALE		UNDERCLAY	1.6	121.4	

MAPID: 05786003000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.065728

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680149

DATE COLLECTED: 1 / 12 / 1979

SURFACE ELEVATION (FT.): 745.7 LOGGED (FT.): 130.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28224

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.7	PLEISTOCENE		SOIL	19.9	0.0	
725.8	CARBONDALE	DANVILLE	COAL	1.0	19.9	SOFT; TOP ERODED
724.8	CARBONDALE		CLAYSTONE	9.1	20.9	GRAY
715.7	CARBONDALE		GRAY SHALE	2.0	30.0	
713.7	CARBONDALE		SHALE & SANDSTONE	23.6	32.0	
690.1	CARBONDALE	BRERETON	LIMESTONE	3.4	55.6	
686.7	CARBONDALE	HERRIN	COAL/CLAYSTONE	0.7	59.0	WHITE TOP
686.0	CARBONDALE	HERRIN	COAL	2.0	59.7	
684.0	CARBONDALE	HERRIN	BLUE BAND	0.2	61.7	
683.8	CARBONDALE	HERRIN	COAL	1.7	61.9	
682.1	CARBONDALE		UNDERCLAY	2.4	63.6	
679.7	CARBONDALE		GRAY SHALE	2.8	66.0	
676.9	CARBONDALE		LIMESTONE	6.2	68.8	
670.7	CARBONDALE		GRAY SHALE	21.5	75.0	
649.2	CARBONDALE		DARK SHALE	23.5	96.5	
625.7	CARBONDALE	ST. DAVID	LIMESTONE	0.8	120.0	
624.9	CARBONDALE	TURNER MINE	SHALE	2.8	120.8	
622.1	CARBONDALE	SPRINGFIELD	COAL	3.8	123.6	
618.3	CARBONDALE		SHALE/UNDERCLAY	2.6	127.4	

MAPID: 05786004000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.067585

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.679978

DATE COLLECTED: 1 / 13 / 1979

SURFACE ELEVATION (FT.): 748.2 LOGGED (FT.): 137.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28225

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
748.2	PLEISTOCENE		SOIL	19.5	0.0	
728.7	MODESTO		SANDY SHALE	7.5	19.5	
721.2	MODESTO		DARK SHALE	1.7	27.0	
719.5	CARBONDALE	DANVILLE	COAL	1.3	28.7	SOFT
718.2	CARBONDALE		GRAY SHALE	14.0	30.0	
704.2	CARBONDALE		SANDSTONE	10.6	44.0	
693.6	CARBONDALE		GRAY SHALE	13.6	54.6	
680.0	CARBONDALE	ANNA	DARK SHALE	0.6	68.2	
679.4	CARBONDALE	HERRIN	COAL/CLAYSTONE	1.7	68.8	WHITE TOP
677.7	CARBONDALE	HERRIN	COAL	2.9	70.5	
674.8	CARBONDALE		SHALE/UNDERCLAY	2.6	73.4	
672.2	CARBONDALE		SANDSTONE	18.8	76.0	
653.4	CARBONDALE		GRAY SHALE	12.0	94.8	
641.4	CARBONDALE		DARK SHALE	21.9	106.8	
619.5	CARBONDALE	ST. DAVID	LIMESTONE	1.1	128.7	
618.4	CARBONDALE	TURNER MINE	SHALE	2.5	129.8	
615.9	CARBONDALE	SPRINGFIELD	COAL	3.8	132.3	
612.1	CARBONDALE		UNDERCLAY	0.9	136.1	

MAPID: 05786005000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.067529

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67843

DATE COLLECTED: 1 / 12 / 1979

SURFACE ELEVATION (FT.): 750.3 LOGGED (FT.): 130.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28226

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.3	PLEISTOCENE		SOIL	22.0	0.0	
728.3	CARBONDALE	DANVILLE	COAL	1.4	22.0	SOFT; TOP ERODED
726.9	CARBONDALE		SHALE	11.2	23.4	
715.7	CARBONDALE		SANDSTONE	5.4	34.6	
710.3	CARBONDALE		SHALE	20.4	40.0	
689.9	CARBONDALE	ANNA	DARK SHALE	0.8	60.4	
689.1	CARBONDALE	HERRIN	COAL	2.2	61.2	
686.9	CARBONDALE	HERRIN	BLUE BAND	0.2	63.4	
686.7	CARBONDALE	HERRIN	COAL	1.8	63.6	
684.9	CARBONDALE		SHALE/UNDERCLAY	7.6	65.4	
677.3	CARBONDALE		SANDSTONE	9.2	73.0	
668.1	CARBONDALE		SHALE	20.3	82.2	
647.8	CARBONDALE		SANDSTONE	2.5	102.5	
645.3	CARBONDALE		DARK SHALE	13.7	105.0	
631.6	CARBONDALE	ST. DAVID	LIMESTONE	0.8	118.7	
630.8	CARBONDALE	TURNER MINE	SHALE	3.1	119.5	
627.7	CARBONDALE	SPRINGFIELD	COAL	3.5	122.6	
624.2	CARBONDALE		SHALE/UNDERCLAY	3.9	126.1	

MAPID: 05786006000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.070962 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678508 DATE COLLECTED: 1 / 18 / 1979

SURFACE ELEVATION (FT.): 756.5 LOGGED (FT.): 132.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28227 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
756.5	PLEISTOCENE		SOIL	22.5	0.0	
734.0	MODESTO		SANDY SHALE	5.1	22.5	
728.9	CARBONDALE	DANVILLE	COAL	1.0	27.6	
727.9	CARBONDALE		GRAY SHALE	11.4	28.6	SOFT
716.5	CARBONDALE		SANDSTONE	6.8	40.0	
709.7	CARBONDALE		SHALE & SANDSTONE	17.0	46.8	
692.7	CARBONDALE	BRERETON	LIMESTONE	0.4	63.8	
692.3	CARBONDALE	ANNA	DARK SHALE	1.4	64.2	
690.9	CARBONDALE	HERRIN	COAL	2.4	65.6	
688.5	CARBONDALE	HERRIN	BLUE BAND	0.2	68.0	
688.3	CARBONDALE	HERRIN	COAL	1.8	68.2	
686.5	CARBONDALE		UNDERCLAY	1.0	70.0	
685.5	CARBONDALE		GRAY SHALE	2.0	71.0	
683.5	CARBONDALE		SANDSTONE	23.7	73.0	
659.8	CARBONDALE		DARK SHALE	28.1	96.7	
631.7	CARBONDALE	ST. DAVID	LIMESTONE	0.9	124.8	
630.8	CARBONDALE	TURNER MINE	SHALE	1.5	125.7	
629.3	CARBONDALE	SPRINGFIELD	COAL	3.6	127.2	
625.7	CARBONDALE		UNDERCLAY	1.2	130.8	

MAPID: 05786007000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.063756

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674804

DATE COLLECTED: 1 / 22 / 1979

SURFACE ELEVATION (FT.): 743.1 LOGGED (FT.): 127.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28228

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
743.1	PLEISTOCENE		SOIL	28.8	0.0
714.3	SHELBURN		SANDSTONE	12.7	28.8
701.6	SHELBURN		GRAY SHALE	16.9	41.5
684.7	CARBONDALE	HERRIN	COAL	2.2	58.4
682.5	CARBONDALE	HERRIN	BLUE BAND	0.2	60.6
682.3	CARBONDALE	HERRIN	COAL	2.0	60.8
680.3	CARBONDALE		UNDERCLAY	2.2	62.8
678.1	CARBONDALE		LIMESTONE	7.6	65.0
670.5	CARBONDALE		SHALE & SANDSTONE	13.4	72.6
657.1	CARBONDALE		SANDSTONE	4.5	86.0
652.6	CARBONDALE		DARK SHALE	27.7	90.5
624.9	CARBONDALE	ST. DAVID	LIMESTONE	0.8	118.2
624.1	CARBONDALE	TURNER MINE	SHALE	2.8	119.0
621.3	CARBONDALE	SPRINGFIELD	COAL	3.8	121.8
617.5	CARBONDALE		UNDERCLAY	1.4	125.6

MAPID: 05786008000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.063811

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67304

DATE COLLECTED: 1 / 23 / 1979

SURFACE ELEVATION (FT.): 742.4 LOGGED (FT.): 124.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28229

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.4	PLEISTOCENE		SOIL	33.0	0.0	
709.4	SHELBURN		GRAY SANDSTONE	10.4	33.0	HARD
699.0	SHELBURN		GRAY SHALE	12.6	43.4	
686.4	CARBONDALE		CLAYSTONE	2.5	56.0	WHITE TOP
683.9	CARBONDALE	HERRIN	COAL	0.5	58.5	
683.4	CARBONDALE	HERRIN	BLUE BAND	0.2	59.0	
683.2	CARBONDALE	HERRIN	COAL	1.4	59.2	
681.8	CARBONDALE		UNDERCLAY	2.4	60.6	
679.4	CARBONDALE		LIMESTONE	8.5	63.0	
670.9	CARBONDALE		GRAY SHALE	11.1	71.5	
659.8	CARBONDALE		SANDSTONE	8.4	82.6	HARD
651.4	CARBONDALE		DARK SHALE	23.9	91.0	
627.5	CARBONDALE	ST. DAVID	LIMESTONE	0.8	114.9	
626.7	CARBONDALE	TURNER MINE	SHALE	2.5	115.7	
624.2	CARBONDALE	SPRINGFIELD	COAL	3.7	118.2	
620.5	CARBONDALE		UNDERCLAY	2.1	121.9	

MAPID: 05786009000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.07095 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676656 DATE COLLECTED: 1 / 25 / 1979

SURFACE ELEVATION (FT.): 749.3 LOGGED (FT.): 126.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28230 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
749.3	PLEISTOCENE		SOIL	20.3	0.0	
729.0	PLEISTOCENE		SANDY CLAY	11.7	20.3	
717.3	SHELBURN		GRAY SHALE	25.9	32.0	
691.4	CARBONDALE	ANNA	BLACK SHALE	0.3	57.9	
691.1	CARBONDALE	HERRIN	COAL	2.5	58.2	
688.6	CARBONDALE	HERRIN	BLUE BAND	0.2	60.7	
688.4	CARBONDALE	HERRIN	COAL	1.9	60.9	
686.5	CARBONDALE		SHALE/UNDERCLAY	5.4	62.8	
681.1	CARBONDALE		SANDSTONE	12.8	68.2	
668.3	CARBONDALE		GRAY SHALE	13.9	81.0	
654.4	CARBONDALE		DARK SHALE	22.6	94.9	
631.8	CARBONDALE	TURNER MINE	SHALE	2.8	117.5	
629.0	CARBONDALE	SPRINGFIELD	COAL	3.9	120.3	
625.1	CARBONDALE		UNDERCLAY	1.8	124.2	

MAPID: 05786010000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.068047 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676632 DATE COLLECTED: 1 / 26 / 1979

SURFACE ELEVATION (FT.): 746.5 LOGGED (FT.): 125.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28231 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
746.5	PLEISTOCENE		SOIL	29.0	0.0
717.5	CARBONDALE		SANDSTONE	12.1	29.0
705.4	CARBONDALE		SHALE & SANDSTONE	8.4	41.1
697.0	CARBONDALE		GRAY SHALE	4.5	49.5
692.5	CARBONDALE		DARK SHALE	1.8	54.0
690.7	CARBONDALE	BRERETON	LIMESTONE	1.6	55.8
689.1	CARBONDALE	HERRIN	COAL	2.3	57.4
686.8	CARBONDALE	HERRIN	BLUE BAND	0.2	59.7
686.6	CARBONDALE	HERRIN	COAL	2.0	59.9
684.6	CARBONDALE		SHALE/UNDERCLAY	2.1	61.9
682.5	CARBONDALE		LIMESTONE	7.6	64.0
674.9	CARBONDALE		GRAY SHALE	8.7	71.6
666.2	CARBONDALE		SANDSTONE	4.7	80.3
661.5	CARBONDALE		GRAY SHALE	15.3	85.0
646.2	CARBONDALE		DARK SHALE	16.2	100.3
630.0	CARBONDALE	ST. DAVID	LIMESTONE	0.3	116.5
629.7	CARBONDALE	TURNER MINE	SHALE	2.5	116.8
627.2	CARBONDALE	SPRINGFIELD	COAL	3.7	119.3
623.5	CARBONDALE		UNDERCLAY	2.0	123.0

MAPID: 05786011000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.06588 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676636 DATE COLLECTED: 1 / 29 / 1979

SURFACE ELEVATION (FT.): 743.6 LOGGED (FT.): 120.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28232 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
743.6	PLEISTOCENE		SOIL	24.8	0.0	
718.8	SHELBURN		GRAY SHALE	3.2	24.8	SOFT
715.6	SHELBURN		SANDSTONE	12.6	28.0	
703.0	SHELBURN		GRAY SHALE	11.8	40.6	
691.2	CARBONDALE	ANNA	BLACK SHALE	0.4	52.4	
690.8	CARBONDALE	HERRIN	COAL	2.5	52.8	
688.3	CARBONDALE	HERRIN	BLUE BAND	0.2	55.3	
688.1	CARBONDALE	HERRIN	COAL	1.5	55.5	
686.6	CARBONDALE		SHALE/UNDERCLAY	4.7	57.0	
681.9	CARBONDALE		SANDSTONE	11.1	61.7	
670.8	CARBONDALE		SHALE & SANDSTONE	22.2	72.8	
648.6	CARBONDALE		DARK SHALE	16.8	95.0	
631.8	CARBONDALE	ST. DAVID	LIMESTONE	0.6	111.8	
631.2	CARBONDALE	TURNER MINE	SHALE	2.4	112.4	
628.8	CARBONDALE	SPRINGFIELD	COAL	3.8	114.8	
625.0	CARBONDALE		UNDERCLAY	1.4	118.6	

MAPID: 05786012000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.063771

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676633

DATE COLLECTED: 1 / 30 / 1979

SURFACE ELEVATION (FT.): 745.2 LOGGED (FT.): 124.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28233

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.2	PLEISTOCENE		SOIL	20.0	0.0	
725.2	PLEISTOCENE		SANDY CLAY	10.3	20.0	
714.9	SHELBURN		GRAY SHALE	2.6	30.3	SOFT
712.3	SHELBURN		SANDSTONE	10.1	32.9	
702.2	SHELBURN		GRAY SHALE	11.0	43.0	
691.2	CARBONDALE	ANNA	BLACK SHALE	1.0	54.0	
690.2	CARBONDALE	HERRIN	COAL	2.6	55.0	
687.6	CARBONDALE	HERRIN	BLUE BAND	0.2	57.6	
687.4	CARBONDALE	HERRIN	COAL	1.7	57.8	
685.7	CARBONDALE		SHALE/UNDERCLAY	2.5	59.5	
683.2	CARBONDALE		SANDSTONE	8.8	62.0	
674.4	CARBONDALE		SANDSTONE/SHALE	19.5	70.8	
654.9	CARBONDALE		DARK SHALE	25.5	90.3	
629.4	CARBONDALE	ST. DAVID	LIMESTONE	0.6	115.8	
628.8	CARBONDALE	TURNER MINE	SHALE	2.6	116.4	
626.2	CARBONDALE	SPRINGFIELD	COAL	3.7	119.0	
622.5	CARBONDALE		UNDERCLAY	1.3	122.7	

MAPID: 05786013000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.070924

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673109

DATE COLLECTED: 1 / 5 / 1979

SURFACE ELEVATION (FT.): 727.6 LOGGED (FT.): 108.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28297

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
727.6	PLEISTOCENE		CLAY	13.7	0.0
713.9	CARBONDALE		SANDSTONE	9.3	13.7
704.6	CARBONDALE		SHALE & SANDSTONE	14.3	23.0
690.3	CARBONDALE	BRERETON	LIMESTONE	3.5	37.3
686.8	CARBONDALE	HERRIN	COAL	2.6	40.8
684.2	CARBONDALE	HERRIN	BLUE BAND	0.2	43.4
684.0	CARBONDALE	HERRIN	COAL	1.4	43.6
682.6	CARBONDALE		SHALE/UNDERCLAY	5.0	45.0
677.6	CARBONDALE		SHALE & SANDSTONE	23.7	50.0
653.9	CARBONDALE		LIMESTONE	0.3	73.7
653.6	CARBONDALE		DARK SHALE	25.9	74.0
627.7	CARBONDALE	ST. DAVID	LIMESTONE	0.3	99.9
627.4	CARBONDALE	TURNER MINE	SHALE	2.8	100.2
624.6	CARBONDALE	SPRINGFIELD	COAL	3.6	103.0
621.0	CARBONDALE		UNDERCLAY	1.4	106.6

MAPID: 05786014000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.068446

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67317

DATE COLLECTED: 5 / 2 / 1979

SURFACE ELEVATION (FT.): 739.3 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28298

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.3	PLEISTOCENE		SOIL	1.0	0.0	
738.3	PLEISTOCENE		CLAY	20.5	1.0	
717.8	CARBONDALE		LIMESTONE	4.5	21.5	
713.3	CARBONDALE		SANDSTONE	17.0	26.0	
696.3	CARBONDALE		DARK SHALE	0.9	43.0	
695.4	CARBONDALE	BRERETON	LIMESTONE	3.4	43.9	
692.0	CARBONDALE		CLAYSTONE	0.3	47.3	WHITE TOP
691.7	CARBONDALE	HERRIN	COAL	2.0	47.6	
689.7	CARBONDALE	HERRIN	BLUE BAND	0.2	49.6	
689.5	CARBONDALE	HERRIN	COAL	1.7	49.8	
687.8	CARBONDALE		UNDERCLAY	2.5	51.5	
685.3	CARBONDALE		GRAY SHALE	1.1	54.0	
684.2	CARBONDALE		SANDSTONE	3.3	55.1	
680.9	CARBONDALE		GRAY SHALE	8.9	58.4	
672.0	CARBONDALE		SANDSTONE	3.2	67.3	
668.8	CARBONDALE		SHALE & SANDSTONE	14.5	70.5	
654.3	CARBONDALE		LIMESTONE	0.3	85.0	
654.0	CARBONDALE		DARK SHALE	22.0	85.3	
632.0	CARBONDALE	ST. DAVID	LIMESTONE	0.7	107.3	
631.3	CARBONDALE	TURNER MINE	SHALE	2.3	108.0	
629.0	CARBONDALE	SPRINGFIELD	COAL	3.7	110.3	
625.3	CARBONDALE		UNDERCLAY	1.0	114.0	

MAPID: 05786017000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.053994

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682014

DATE COLLECTED: 1 / 10 / 1979

SURFACE ELEVATION (FT.): 736.4 LOGGED (FT.): 121.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28351

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.4	PLEISTOCENE		CLAY	24.5	0.0	
711.9	CARBONDALE		SHALE & SANDSTONE	27.0	24.5	
684.9	CARBONDALE	BRERETON	LIMESTONE	2.1	51.5	
682.8	CARBONDALE		CLAYSTONE	0.8	53.6	WHITE TOP
682.0	CARBONDALE	ANNA	DARK SHALE	0.8	54.4	
681.2	CARBONDALE	HERRIN	COAL	3.3	55.2	
677.9	CARBONDALE		UNDERCLAY	1.7	58.5	
676.2	CARBONDALE		SHALE & SANDSTONE	36.8	60.2	
639.4	CARBONDALE		DARK SHALE	15.5	97.0	
623.9	CARBONDALE	ST. DAVID	LIMESTONE	0.4	112.5	
623.5	CARBONDALE		GRAY SHALE	1.5	112.9	
622.0	CARBONDALE	TURNER MINE	DARK SHALE	0.8	114.4	
621.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	115.2	
620.0	CARBONDALE	SPRINGFIELD	COAL	3.4	116.4	
616.6	CARBONDALE		UNDERCLAY	1.2	119.8	

MAPID: 05786018000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.058633

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682034

DATE COLLECTED: 1 / 10 / 1979

SURFACE ELEVATION (FT.): 740.2 LOGGED (FT.): 126.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28352

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.2	PLEISTOCENE		CLAY	29.0	0.0	
711.2	CARBONDALE		SHALE & SANDSTONE	22.5	29.0	
688.7	CARBONDALE	BRERETON	LIMESTONE	4.9	51.5	
683.8	CARBONDALE		CLAYSTONE	0.8	56.4	WHITE TOP
683.0	CARBONDALE	ANNA	DARK SHALE	0.3	57.2	
682.7	CARBONDALE	HERRIN	COAL	2.1	57.5	
680.6	CARBONDALE	HERRIN	BLUE BAND	0.2	59.6	
680.4	CARBONDALE	HERRIN	COAL	1.3	59.8	
679.1	CARBONDALE		UNDERCLAY	2.5	61.1	
676.6	CARBONDALE		SHALE & SANDSTONE	36.2	63.6	
640.4	CARBONDALE		DARK SHALE	17.2	99.8	
623.2	CARBONDALE	ST. DAVID	LIMESTONE	0.5	117.0	
622.7	CARBONDALE		GRAY SHALE	0.5	117.5	
622.2	CARBONDALE	TURNER MINE	DARK SHALE	1.1	118.0	
621.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	119.1	
619.7	CARBONDALE	SPRINGFIELD	COAL	3.7	120.5	
616.0	CARBONDALE		UNDERCLAY	1.8	124.2	

MAPID: 05786019000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.063181

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682057

DATE COLLECTED: 1 / 11 / 1979

SURFACE ELEVATION (FT.): 741.4 LOGGED (FT.): 130.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28353

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
741.4	PLEISTOCENE		CLAY	27.5	0.0
713.9	SHELBURN		SHALE & SANDSTONE	32.1	27.5
681.8	CARBONDALE	ANNA	DARK SHALE	1.2	59.6
680.6	CARBONDALE	HERRIN	COAL	2.4	60.8
678.2	CARBONDALE	HERRIN	BLUE BAND	0.2	63.2
678.0	CARBONDALE	HERRIN	COAL	1.7	63.4
676.3	CARBONDALE		UNDERCLAY	1.6	65.1
674.7	CARBONDALE		SHALE & SANDSTONE	36.8	66.7
637.9	CARBONDALE		DARK SHALE	18.2	103.5
619.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	121.7
619.3	CARBONDALE		GRAY SHALE	0.8	122.1
618.5	CARBONDALE	TURNER MINE	DARK SHALE	0.9	122.9
617.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	123.8
616.3	CARBONDALE	SPRINGFIELD	COAL	3.5	125.1
612.8	CARBONDALE		UNDERCLAY	1.4	128.6

MAPID: 05786020000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.068266

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682104

DATE COLLECTED: 1 / 12 / 1979

SURFACE ELEVATION (FT.): 740.1 LOGGED (FT.): 125.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28354

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.1	PLEISTOCENE		CLAY	28.0	0.0	
712.1	CARBONDALE		GRAY SHALE	27.3	28.0	
684.8	CARBONDALE	BRERETON	LIMESTONE	1.1	55.3	
683.7	CARBONDALE		CLAYSTONE	0.6	56.4	WHITE TOP
683.1	CARBONDALE	HERRIN	COAL	2.3	57.0	
680.8	CARBONDALE	HERRIN	BLUE BAND	0.2	59.3	
680.6	CARBONDALE	HERRIN	COAL	1.6	59.5	
679.0	CARBONDALE		UNDERCLAY	1.6	61.1	
677.4	CARBONDALE		SHALE & SANDSTONE	35.8	62.7	
641.6	CARBONDALE		DARK SHALE	17.0	98.5	
624.6	CARBONDALE	ST. DAVID	LIMESTONE	0.6	115.5	
624.0	CARBONDALE		GRAY SHALE	0.6	116.1	
623.4	CARBONDALE	TURNER MINE	DARK SHALE	0.8	116.7	
622.6	CARBONDALE	TURNER MINE	DARK SHALE	1.4	117.5	
621.2	CARBONDALE	SPRINGFIELD	COAL	3.9	118.9	
617.3	CARBONDALE		UNDERCLAY	2.2	122.8	

MAPID: 05786021000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.070659

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.68001

DATE COLLECTED: 1 / 12 / 1979

SURFACE ELEVATION (FT.): 750.2 LOGGED (FT.): 133.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28355

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.2	PLEISTOCENE		CLAY	28.2	0.0	
722.0	CARBONDALE	DANVILLE	COAL	0.8	28.2	TOP ERODED
721.2	CARBONDALE		GRAY SHALE	31.5	29.0	
689.7	CARBONDALE	BRERETON	LIMESTONE	3.5	60.5	
686.2	CARBONDALE		CLAYSTONE	0.8	64.0	WHITE TOP
685.4	CARBONDALE	HERRIN	COAL	2.1	64.8	
683.3	CARBONDALE	HERRIN	BLUE BAND	0.2	66.9	
683.1	CARBONDALE	HERRIN	COAL	1.9	67.1	
681.2	CARBONDALE		UNDERCLAY	1.7	69.0	
679.5	CARBONDALE		SHALE & SANDSTONE	35.8	70.7	
643.7	CARBONDALE		DARK SHALE	17.6	106.5	
626.1	CARBONDALE	ST. DAVID	LIMESTONE	0.6	124.1	
625.5	CARBONDALE		GRAY SHALE	0.9	124.7	
624.6	CARBONDALE	TURNER MINE	DARK SHALE	1.3	125.6	
623.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	126.9	
622.2	CARBONDALE	SPRINGFIELD	COAL	3.8	128.0	
618.4	CARBONDALE		UNDERCLAY	1.2	131.8	

MAPID: 05786022000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.058838

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678311

DATE COLLECTED: 1 / 16 / 1979

SURFACE ELEVATION (FT.): 744.0 LOGGED (FT.): 127.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28356

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.0	PLEISTOCENE		CLAY	25.0	0.0	
719.0	CARBONDALE		SHALE & SANDSTONE	30.7	25.0	
688.3	CARBONDALE	BRERETON	LIMESTONE	2.8	55.7	
685.5	CARBONDALE		CLAYSTONE	1.0	58.5	WHITE TOP
684.5	CARBONDALE	HERRIN	COAL	3.8	59.5	
680.7	CARBONDALE		UNDERCLAY	1.7	63.3	
679.0	CARBONDALE		SHALE & SANDSTONE	41.0	65.0	
638.0	CARBONDALE		DARK SHALE	12.7	106.0	
625.3	CARBONDALE	ST. DAVID	LIMESTONE	0.3	118.7	
625.0	CARBONDALE		GRAY SHALE	1.3	119.0	
623.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	120.3	
621.7	CARBONDALE	SPRINGFIELD	COAL	3.4	122.3	
618.3	CARBONDALE		UNDERCLAY	1.3	125.7	

MAPID: 05786025000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.065091

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678478

DATE COLLECTED: 1 / 19 / 1979

SURFACE ELEVATION (FT.): 745.8 LOGGED (FT.): 126.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28359

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.8	PLEISTOCENE		CLAY	29.5	0.0	
716.3	CARBONDALE		GRAY SHALE	27.1	29.5	
689.2	CARBONDALE	BRERETON	LIMESTONE	1.5	56.6	
687.7	CARBONDALE		CLAYSTONE	0.5	58.1	WHITE TOP
687.2	CARBONDALE	HERRIN	COAL	2.4	58.6	
684.8	CARBONDALE	HERRIN	BLUE BAND	0.2	61.0	
684.6	CARBONDALE	HERRIN	COAL	1.6	61.2	
683.0	CARBONDALE		UNDERCLAY	1.7	62.8	
681.3	CARBONDALE		SHALE & SANDSTONE	39.5	64.5	
641.8	CARBONDALE		DARK SHALE	13.9	104.0	
627.9	CARBONDALE	ST. DAVID	LIMESTONE	0.4	117.9	
627.5	CARBONDALE	TURNER MINE	DARK SHALE	1.8	118.3	
625.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	120.1	
624.4	CARBONDALE	SPRINGFIELD	COAL	3.2	121.4	
621.2	CARBONDALE		UNDERCLAY	1.4	124.6	

MAPID: 05786028000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.066833

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673048

DATE COLLECTED: 1 / 26 / 1979

SURFACE ELEVATION (FT.): 737.7 LOGGED (FT.): 113.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28362

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
737.7	PLEISTOCENE		CLAY	21.0	0.0
716.7	SHELBURN		SHALE & SANDSTONE	23.8	21.0
692.9	CARBONDALE	ANNA	DARK SHALE	1.6	44.8
691.3	CARBONDALE	HERRIN	COAL	2.1	46.4
689.2	CARBONDALE	HERRIN	BLUE BAND	0.2	48.5
689.0	CARBONDALE	HERRIN	COAL	1.7	48.7
687.3	CARBONDALE		UNDERCLAY	1.6	50.4
685.7	CARBONDALE		SHALE & SANDSTONE	41.5	52.0
644.2	CARBONDALE		DARK SHALE	10.5	93.5
633.7	CARBONDALE	ST. DAVID	LIMESTONE	0.6	104.0
633.1	CARBONDALE	TURNER MINE	DARK SHALE	1.6	104.6
631.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	106.2
630.2	CARBONDALE	SPRINGFIELD	COAL	3.6	107.5
626.6	CARBONDALE		UNDERCLAY	1.9	111.1

MAPID: 05786029000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.07088 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675195 DATE COLLECTED: 1 / 26 / 1979

SURFACE ELEVATION (FT.): 740.6 LOGGED (FT.): 120.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28363 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
740.6	PLEISTOCENE		CLAY	23.5	0.0
717.1	SHELBURN		SHALE & SANDSTONE	28.6	23.5
688.5	CARBONDALE	ANNA	DARK SHALE	0.6	52.1
687.9	CARBONDALE	HERRIN	COAL	2.2	52.7
685.7	CARBONDALE	HERRIN	BLUE BAND	0.2	54.9
685.5	CARBONDALE	HERRIN	COAL	1.7	55.1
683.8	CARBONDALE		UNDERCLAY	1.8	56.8
682.0	CARBONDALE		SHALE & SANDSTONE	40.4	58.6
641.6	CARBONDALE		DARK SHALE	12.8	99.0
628.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	111.8
628.4	CARBONDALE	TURNER MINE	DARK SHALE	0.9	112.2
627.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	113.1
626.2	CARBONDALE	SPRINGFIELD	COAL	3.7	114.4
622.5	CARBONDALE		UNDERCLAY	1.9	118.1

MAPID: 05786030000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.058887

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676716

DATE COLLECTED: 1 / 29 / 1979

SURFACE ELEVATION (FT.): 744.2 LOGGED (FT.): 128.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28364

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.2	PLEISTOCENE		CLAY	20.5	0.0	YELLOW
723.7	PLEISTOCENE		CLAY	11.5	20.5	GRAY
712.2	CARBONDALE		GRAY SHALE	26.5	32.0	
685.7	CARBONDALE	BRERETON	LIMESTONE	0.4	58.5	
685.3	CARBONDALE	ANNA	DARK SHALE	1.9	58.9	
683.4	CARBONDALE	HERRIN	COAL	2.1	60.8	
681.3	CARBONDALE	HERRIN	BLUE BAND	0.2	62.9	
681.1	CARBONDALE	HERRIN	COAL	1.7	63.1	
679.4	CARBONDALE		UNDERCLAY	1.8	64.8	
677.6	CARBONDALE		SHALE & SANDSTONE	41.4	66.6	
636.2	CARBONDALE		DARK SHALE	11.8	108.0	
624.4	CARBONDALE	ST. DAVID	LIMESTONE	0.4	119.8	
624.0	CARBONDALE	TURNER MINE	DARK SHALE	1.4	120.2	
622.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	121.6	
620.9	CARBONDALE	SPRINGFIELD	COAL	3.2	123.3	
617.7	CARBONDALE		UNDERCLAY	1.5	126.5	

MAPID: 05786041000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.073142 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.681902 DATE COLLECTED: 6 / 16 / 1975

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 120.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23204 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
730.0	PLEISTOCENE		CLAY	26.2	0.0
703.8	SHELBURN		SHALE & SANDSTONE	20.8	26.2
683.0	CARBONDALE	ANNA	DARK SHALE	1.5	47.0
681.5	CARBONDALE	HERRIN	COAL	2.1	48.5
679.4	CARBONDALE	HERRIN	BLUE BAND	0.2	50.6
679.2	CARBONDALE	HERRIN	COAL	1.8	50.8
677.4	CARBONDALE		UNDERCLAY	1.4	52.6
676.0	CARBONDALE		SHALE & SANDSTONE	38.5	54.0
637.5	CARBONDALE		DARK SHALE	17.9	92.5
619.6	CARBONDALE	TURNER MINE	DARK SHALE	0.9	110.4
618.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	111.3
617.6	CARBONDALE	SPRINGFIELD	COAL	3.9	112.4
613.7	CARBONDALE		UNDERCLAY	3.7	116.3

MAPID: 05786042000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.073124 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682749 DATE COLLECTED: 6 / 6 / 1975

SURFACE ELEVATION (FT.): 735.8 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23205 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
735.8	PLEISTOCENE		CLAY	23.0	0.0
712.8	SHELBURN		GRAY SHALE	2.3	23.0
710.5	SHELBURN		SANDSTONE	6.3	25.3
704.2	SHELBURN		SHALE & SANDSTONE	12.8	31.6
691.4	SHELBURN		DARK SHALE	3.6	44.4
687.8	CARBONDALE	HERRIN	COAL	1.9	48.0
685.9	CARBONDALE	HERRIN	BLUE BAND	0.2	49.9
685.7	CARBONDALE	HERRIN	COAL	1.9	50.1
683.8	CARBONDALE		UNDERCLAY	3.0	52.0

MAPID: 05786047000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.073149

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680136

DATE COLLECTED: 7 / 2 / 1975

SURFACE ELEVATION (FT.): 744.8 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23234

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.8	PLEISTOCENE		CLAY	27.6	0.0	
717.2	CARBONDALE		GRAY SHALE	14.4	27.6	
702.8	CARBONDALE	BRERETON	LIMESTONE	4.8	42.0	
698.0	CARBONDALE		CLAYSTONE	0.5	46.8	WHITE TOP
697.5	CARBONDALE	HERRIN	COAL	2.2	47.3	
695.3	CARBONDALE	HERRIN	BLUE BAND	0.3	49.5	
695.0	CARBONDALE	HERRIN	COAL	1.8	49.8	
693.2	CARBONDALE		UNDERCLAY	1.6	51.6	
691.6	CARBONDALE		SHALE & SANDSTONE	39.2	53.2	
652.4	CARBONDALE		DARK SHALE	14.2	92.4	
638.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	106.6	
637.8	CARBONDALE	TURNER MINE	DARK SHALE	1.6	107.0	
636.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	108.6	
634.8	CARBONDALE	SPRINGFIELD	COAL	3.4	110.0	
631.4	CARBONDALE		UNDERCLAY	1.6	113.4	

MAPID: 05786048000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.073221

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677377

DATE COLLECTED: 6 / 19 / 1975

SURFACE ELEVATION (FT.): 745.7 LOGGED (FT.): 122.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23402

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
745.7	PLEISTOCENE		SOIL	1.0	0.0
744.7	PLEISTOCENE		CLAY	19.0	1.0
725.7	SHELBURN		GRAY SHALE	13.0	20.0
712.7	SHELBURN		SANDSTONE	6.0	33.0
706.7	SHELBURN		CALCAREOUS SHALE	17.0	39.0
689.7	CARBONDALE	HERRIN	COAL	1.5	56.0
688.2	CARBONDALE	HERRIN	BLUE BAND	0.2	57.5
688.0	CARBONDALE	HERRIN	COAL	1.4	57.7
686.6	CARBONDALE		UNDERCLAY	1.9	59.1
684.7	CARBONDALE		GRAY SHALE	3.0	61.0
681.7	CARBONDALE		SANDSTONE	6.0	64.0
675.7	CARBONDALE		GRAY SHALE	22.0	70.0
653.7	CARBONDALE		DARK SHALE	21.0	92.0
632.7	CARBONDALE	ST. DAVID	LIMESTONE	0.6	113.0
632.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	113.6
630.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	115.0
629.8	CARBONDALE	SPRINGFIELD	COAL	3.6	115.9
626.2	CARBONDALE		UNDERCLAY	2.5	119.5

MAPID: 05786049000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.073232 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676497 DATE COLLECTED: 6 / 19 / 1975

SURFACE ELEVATION (FT.): 742.7 LOGGED (FT.): 63.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23403 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
742.7	PLEISTOCENE		SOIL	1.0	0.0
741.7	PLEISTOCENE		CLAY	20.0	1.0
721.7	SHELBURN		GRAY SHALE	8.0	21.0
713.7	SHELBURN		SANDSTONE	14.0	29.0
699.7	SHELBURN		GRAY SHALE	14.0	43.0
685.7	CARBONDALE	HERRIN	COAL	1.8	57.0
683.9	CARBONDALE	HERRIN	BLUE BAND	0.2	58.8
683.7	CARBONDALE	HERRIN	COAL	1.6	59.0
682.1	CARBONDALE		UNDERCLAY	2.4	60.6

MAPID: 05786050000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.063771 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676633 DATE COLLECTED: 1 / 30 / 1979

SURFACE ELEVATION (FT.): 745.2 LOGGED (FT.): 124.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28233 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
745.2	PLEISTOCENE		SOIL	20.0	0.0
725.2	PLEISTOCENE		SANDY CLAY	10.3	20.0
714.9	SHELBURN		GRAY SHALE	2.6	30.3
712.3	SHELBURN		SANDSTONE	10.1	32.9
702.2	SHELBURN		GRAY SHALE	11.0	43.0
691.2	CARBONDALE	ANNA	BLACK SHALE	1.0	54.0
690.2	CARBONDALE	HERRIN	COAL	2.6	55.0
687.6	CARBONDALE	HERRIN	BLUE BAND	0.2	57.6
687.4	CARBONDALE	HERRIN	COAL	1.7	57.8
685.7	CARBONDALE		SHALE/UNDERCLAY	2.5	59.5
683.2	CARBONDALE		SANDSTONE	8.8	62.0
674.4	CARBONDALE		SANDSTONE/SHALE	19.5	70.8
654.9	CARBONDALE		DARK SHALE	25.5	90.3
629.4	CARBONDALE	ST. DAVID	LIMESTONE	0.6	115.8
628.8	CARBONDALE	TURNER MINE	SHALE	2.6	116.4
626.2	CARBONDALE	SPRINGFIELD	COAL	3.7	119.0
622.5	CARBONDALE		UNDERCLAY	1.3	122.7

MAPID: 05786063000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.081439

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670418

DATE COLLECTED: 2 / 19 / 1979

SURFACE ELEVATION (FT.): 702.0 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28247

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.0	PLEISTOCENE		SOIL	5.5	0.0	
696.5	SHELBURN		GRAY SHALE	5.1	5.5	SOFT
691.4	CARBONDALE	HERRIN	COAL	3.7	10.6	SOFT MINERAL
687.7	CARBONDALE		UNDERCLAY	1.7	14.3	
686.0	CARBONDALE		SANDSTONE	8.7	16.0	
677.3	CARBONDALE		GRAY SHALE	3.7	24.7	
673.6	CARBONDALE		SANDSTONE	6.3	28.4	
667.3	CARBONDALE		GRAY SHALE	15.3	34.7	
652.0	CARBONDALE		DARK SHALE	20.7	50.0	
631.3	CARBONDALE	ST. DAVID	LIMESTONE	0.5	70.7	
630.8	CARBONDALE	TURNER MINE	SHALE	2.4	71.2	
628.4	CARBONDALE	SPRINGFIELD	COAL	3.8	73.6	
624.6	CARBONDALE		SHALE/UNDERCLAY	2.6	77.4	

MAPID: 05786064000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082541

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670909

DATE COLLECTED: 2 / 19 / 1979

SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 77.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28248

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.0	PLEISTOCENE		SOIL	10.3	0.0	
689.7	PLEISTOCENE		CLAY & GRAVEL	22.7	10.3	
667.0	CARBONDALE		GRAY SHALE	12.8	33.0	
654.2	CARBONDALE		DARK SHALE	13.0	45.8	
641.2	CARBONDALE		LIMESTONE	0.2	58.8	
641.0	CARBONDALE		DARK SHALE	10.9	59.0	
630.1	CARBONDALE	ST. DAVID	LIMESTONE	0.6	69.9	
629.5	CARBONDALE	TURNER MINE	SHALE	1.1	70.5	
628.4	CARBONDALE	SPRINGFIELD	COAL	3.7	71.6	
624.7	CARBONDALE		UNDERCLAY	1.7	75.3	

MAPID: 05786065000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.081996

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670716

DATE COLLECTED: 2 / 20 / 1979

SURFACE ELEVATION (FT.): 700.6 LOGGED (FT.): 20.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28249

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
700.6	PLEISTOCENE		SOIL	8.5	0.0	
692.1	PLEISTOCENE		CLAY & GRAVEL	11.5	8.5	

MAPID: 05786066000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.077489

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67124

DATE COLLECTED: 2 / 20 / 1979

SURFACE ELEVATION (FT.): 709.4 LOGGED (FT.): 30.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28250

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.4	PLEISTOCENE		SOIL	6.5	0.0	
702.9	SHELBURN		GRAY SHALE	16.5	6.5	SOFT
686.4	CARBONDALE	HERRIN	COAL	2.6	23.0	
683.8	CARBONDALE	HERRIN	BLUE BAND	0.2	25.6	
683.6	CARBONDALE	HERRIN	COAL	1.6	25.8	
682.0	CARBONDALE		SHALE/UNDERCLAY	2.6	27.4	

MAPID: 05786067000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.077878

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673161

DATE COLLECTED: 2 / 20 / 1979

SURFACE ELEVATION (FT.): 736.4 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28251

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
736.4	PLEISTOCENE		SOIL	26.7	0.0
709.7	SHELBURN		GRAY SHALE	1.3	26.7
708.4	SHELBURN		SANDSTONE	12.3	28.0
696.1	SHELBURN		GRAY SHALE	9.1	40.3
687.0	CARBONDALE	ANNA	BLACK SHALE	0.6	49.4
686.4	CARBONDALE	HERRIN	COAL	2.5	50.0
683.9	CARBONDALE	HERRIN	BLUE BAND	0.2	52.5
683.7	CARBONDALE	HERRIN	COAL	1.6	52.7
682.1	CARBONDALE		UNDERCLAY	1.7	54.3
680.4	CARBONDALE		GRAY SHALE	7.0	56.0
673.4	CARBONDALE		SANDSTONE	16.5	63.0
656.9	CARBONDALE		GRAY SHALE	7.9	79.5
649.0	CARBONDALE		DARK SHALE	23.6	87.4
625.4	CARBONDALE	ST. DAVID	LIMESTONE	0.8	111.0
624.6	CARBONDALE	TURNER MINE	SHALE	2.2	111.8
622.4	CARBONDALE	SPRINGFIELD	COAL	3.7	114.0
618.7	CARBONDALE		SHALE/UNDERCLAY	2.3	117.7

MAPID: 05786071000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.086243

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676787

DATE COLLECTED: 2 / 27 / 1979

SURFACE ELEVATION (FT.): 733.0 LOGGED (FT.): 58.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28255

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
733.0	PLEISTOCENE		SOIL	1.0	0.0
732.0	PLEISTOCENE		SANDY CLAY	24.0	1.0
708.0	PLEISTOCENE		CLAY	7.8	25.0
700.2	SHELBURN		GRAY SHALE	16.6	32.8
683.6	CARBONDALE	HERRIN	COAL	2.6	49.4
681.0	CARBONDALE	HERRIN	BLUE BAND	0.2	52.0
680.8	CARBONDALE	HERRIN	COAL	1.7	52.2
679.1	CARBONDALE		SHALE/UNDERCLAY	4.1	53.9

MAPID: 05786072000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.086138

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678106

DATE COLLECTED: 2 / 0 / 1979

SURFACE ELEVATION (FT.): 733.8 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28256

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.8	PLEISTOCENE		SOIL	1.0	0.0	
732.8	PLEISTOCENE		SANDY CLAY	24.0	1.0	YELLOW
708.8	PLEISTOCENE		SANDY CLAY	1.4	25.0	GRAY
707.4	PLEISTOCENE		BOULDER	0.8	26.4	
706.6	PLEISTOCENE		CLAY & GRAVEL	16.8	27.2	
689.8	CARBONDALE		GRAY SHALE	1.8	44.0	
688.0	CARBONDALE	BRERETON	LIMESTONE	2.2	45.8	
685.8	CARBONDALE	HERRIN	COAL	2.2	48.0	
683.6	CARBONDALE	HERRIN	BLUE BAND	0.2	50.2	
683.4	CARBONDALE	HERRIN	COAL	1.6	50.4	
681.8	CARBONDALE		SHALE/UNDERCLAY	3.0	52.0	

MAPID: 05786073000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.086803

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677879

DATE COLLECTED: 2 / 27 / 1979

SURFACE ELEVATION (FT.): 729.6 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28257

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.6	PLEISTOCENE		SOIL	1.0	0.0	
728.6	PLEISTOCENE		SANDY CLAY	25.8	1.0	
702.8	PLEISTOCENE		CLAY & GRAVEL	33.2	26.8	

MAPID: 05786074000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.078259

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678376

DATE COLLECTED: 2 / 28 / 1979

SURFACE ELEVATION (FT.): 745.5 LOGGED (FT.): 125.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28258

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.5	PLEISTOCENE		SOIL	25.6	0.0	
719.9	SHELBURN		SHALE	12.2	25.6	SOFT
707.7	SHELBURN		SANDSTONE/SHALE	10.2	37.8	
697.5	SHELBURN		DARK SHALE	6.4	48.0	
691.1	CARBONDALE	ANNA	BLACK SHALE	1.6	54.4	
689.5	CARBONDALE	HERRIN	COAL	2.6	56.0	
686.9	CARBONDALE	HERRIN	BLUE BAND	0.2	58.6	
686.7	CARBONDALE	HERRIN	COAL	1.7	58.8	
685.0	CARBONDALE		UNDERCLAY	2.5	60.5	
682.5	CARBONDALE		SANDSTONE	18.0	63.0	
664.5	CARBONDALE		GRAY SHALE	15.4	81.0	
649.1	CARBONDALE		DARK SHALE	20.1	96.4	
629.0	CARBONDALE	ST. DAVID	LIMESTONE	0.7	116.5	
628.3	CARBONDALE	TURNER MINE	SHALE	2.4	117.2	
625.9	CARBONDALE	SPRINGFIELD	COAL	3.7	119.6	
622.2	CARBONDALE		UNDERCLAY	1.7	123.3	

MAPID: 05786079000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.075718

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678344

DATE COLLECTED: 4 / 19 / 1979

SURFACE ELEVATION (FT.): 747.9 LOGGED (FT.): 125.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28285

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
747.9	PLEISTOCENE		SOIL	28.5	0.0	
719.4	PLEISTOCENE		CLAY	4.1	28.5	
715.3	CARBONDALE		SANDSTONE	10.9	32.6	
704.4	CARBONDALE		SHALE & SANDSTONE	7.1	43.5	
697.3	CARBONDALE		GRAY SHALE	5.2	50.6	
692.1	CARBONDALE	BRERETON	LIMESTONE	2.2	55.8	
689.9	CARBONDALE		CLAYSTONE	1.9	58.0	WHITE TOP
688.0	CARBONDALE	HERRIN	COAL	1.7	59.9	
686.3	CARBONDALE		UNDERCLAY	1.8	61.6	
684.5	CARBONDALE		GRAY SHALE	2.6	63.4	
681.9	CARBONDALE		SANDSTONE	7.0	66.0	
674.9	CARBONDALE		SHALE & SANDSTONE	13.5	73.0	
661.4	CARBONDALE		GRAY SHALE	8.1	86.5	
653.3	CARBONDALE		LIMESTONE	0.3	94.6	
653.0	CARBONDALE		DARK SHALE	22.1	94.9	
630.9	CARBONDALE	ST. DAVID	LIMESTONE	0.6	117.0	
630.3	CARBONDALE	TURNER MINE	SHALE	2.4	117.6	
627.9	CARBONDALE	SPRINGFIELD	COAL	3.7	120.0	
624.2	CARBONDALE		UNDERCLAY	1.3	123.7	

MAPID: 05786080000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.075838 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670533 DATE COLLECTED: 4 / 20 / 1979

SURFACE ELEVATION (FT.): 740.8 LOGGED (FT.): 121.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28286 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.8	PLEISTOCENE		SOIL	25.8	0.0	
715.0	PLEISTOCENE		CLAY	1.2	25.8	
713.8	SHELBURN		SANDSTONE	18.6	27.0	
695.2	SHELBURN		GRAY SHALE	8.9	45.6	
686.3	CARBONDALE		CLAYSTONE	2.0	54.5	WHITE TOP
684.3	CARBONDALE	HERRIN	COAL	1.5	56.5	
682.8	CARBONDALE		SHALE/UNDERCLAY	4.0	58.0	
678.8	CARBONDALE		SANDSTONE	18.3	62.0	
660.5	CARBONDALE		GRAY SHALE	16.3	80.3	
644.2	CARBONDALE		DARK SHALE	16.2	96.6	
628.0	CARBONDALE	ST. DAVID	LIMESTONE	0.6	112.8	
627.4	CARBONDALE	TURNER MINE	SHALE	2.0	113.4	
625.4	CARBONDALE	SPRINGFIELD	COAL	3.6	115.4	
621.8	CARBONDALE		UNDERCLAY	2.0	119.0	

MAPID: 05786081000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.075981

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669454

DATE COLLECTED: 4 / 20 / 1979

SURFACE ELEVATION (FT.): 734.0 LOGGED (FT.): 114.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28287

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
734.0	PLEISTOCENE		SOIL	17.5	0.0
716.5	PLEISTOCENE		CLAY	1.3	17.5
715.2	SHELBURN		GRAY SHALE	4.2	18.8
711.0	SHELBURN		SANDSTONE	13.5	23.0
697.5	SHELBURN		GRAY SHALE	6.1	36.5
691.4	CARBONDALE	ANNA	BLACK SHALE	1.6	42.6
689.8	CARBONDALE	HERRIN	COAL	2.5	44.2
687.3	CARBONDALE	HERRIN	BLUE BAND	0.2	46.7
687.1	CARBONDALE	HERRIN	COAL	1.7	46.9
685.4	CARBONDALE		SHALE/UNDERCLAY	6.3	48.6
679.1	CARBONDALE		SANDSTONE	15.1	54.9
664.0	CARBONDALE		GRAY SHALE	13.4	70.0
650.6	CARBONDALE		LIMESTONE	0.3	83.4
650.3	CARBONDALE		DARK SHALE	20.9	83.7
629.4	CARBONDALE	ST. DAVID	LIMESTONE	0.4	104.6
629.0	CARBONDALE	TURNER MINE	SHALE	3.0	105.0
626.0	CARBONDALE	SPRINGFIELD	COAL	3.6	108.0
622.4	CARBONDALE		SHALE/UNDERCLAY	2.4	111.6

MAPID: 05786082000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.078163

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669932

DATE COLLECTED: 4 / 23 / 1979

SURFACE ELEVATION (FT.): 712.4 LOGGED (FT.): 92.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28288

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
712.4	PLEISTOCENE		SOIL	4.2	0.0
708.2	SHELBURN		SANDSTONE/SHALE	18.5	4.2
689.7	CARBONDALE	ANNA	BLACK SHALE	0.2	22.7
689.5	CARBONDALE	HERRIN	COAL	2.4	22.9
687.1	CARBONDALE	HERRIN	BLUE BAND	0.2	25.3
686.9	CARBONDALE	HERRIN	COAL	1.8	25.5
685.1	CARBONDALE		SHALE/UNDERCLAY	2.7	27.3
682.4	CARBONDALE		SHALE & SANDSTONE	30.3	30.0
652.1	CARBONDALE		DARK SHALE	23.1	60.3
629.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	83.4
628.0	CARBONDALE	TURNER MINE	SHALE	2.2	84.4
625.8	CARBONDALE	SPRINGFIELD	COAL	3.7	86.6
622.1	CARBONDALE		UNDERCLAY	1.7	90.3

MAPID: 05786083000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.076909

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66943

DATE COLLECTED: 4 / 23 / 1979

SURFACE ELEVATION (FT.): 719.6 LOGGED (FT.): 36.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28289

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
719.6	PLEISTOCENE		SOIL	17.0	0.0
702.6	SHELBURN		GRAY SHALE	11.3	17.0
691.3	CARBONDALE	BRERETON	LIMESTONE	1.5	28.3
689.8	CARBONDALE	HERRIN	COAL	2.5	29.8
687.3	CARBONDALE	HERRIN	BLUE BAND	0.2	32.3
687.1	CARBONDALE	HERRIN	COAL	1.7	32.5
685.4	CARBONDALE		UNDERCLAY	1.8	34.2

MAPID: 05786084000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.075759

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680231

DATE COLLECTED: 4 / 23 / 1979

SURFACE ELEVATION (FT.): 745.7 LOGGED (FT.): 112.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28290

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
745.7	PLEISTOCENE		SOIL	22.6	0.0
723.1	SHELBURN		SHALE & SANDSTONE	4.6	22.6
718.5	SHELBURN		SANDSTONE	2.8	27.2
715.7	SHELBURN		GRAY SHALE	11.0	30.0
704.7	CARBONDALE	ANNA	SHALE	3.8	41.0
700.9	CARBONDALE	HERRIN	COAL	2.2	44.8
698.7	CARBONDALE	HERRIN	BLUE BAND	0.2	47.0
698.5	CARBONDALE	HERRIN	COAL	1.6	47.2
696.9	CARBONDALE		UNDERCLAY	2.2	48.8
694.7	CARBONDALE		GRAY SHALE	2.9	51.0
691.8	CARBONDALE		SANDSTONE	4.7	53.9
687.1	CARBONDALE		GRAY SHALE	15.4	58.6
671.7	CARBONDALE		SANDSTONE	9.4	74.0
662.3	CARBONDALE		DARK SHALE	20.6	83.4
641.7	CARBONDALE	ST. DAVID	LIMESTONE	0.7	104.0
641.0	CARBONDALE	TURNER MINE	SHALE	2.4	104.7
638.6	CARBONDALE	SPRINGFIELD	COAL	3.6	107.1
635.0	CARBONDALE		UNDERCLAY	1.3	110.7

MAPID: 05786085000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.07805 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680303 DATE COLLECTED: 4 / 24 / 1979

SURFACE ELEVATION (FT.): 740.8 LOGGED (FT.): 112.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28291 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
740.8	PLEISTOCENE		SOIL	21.0	0.0
719.8	SHELBURN		SANDSTONE	12.8	21.0
707.0	SHELBURN		SANDY SHALE	3.2	33.8
703.8	CARBONDALE	ANNA	SHALE	8.0	37.0
695.8	CARBONDALE	HERRIN	COAL	2.3	45.0
693.5	CARBONDALE	HERRIN	BLUE BAND	0.2	47.3
693.3	CARBONDALE	HERRIN	COAL	1.6	47.5
691.7	CARBONDALE		UNDERCLAY	1.9	49.1
689.8	CARBONDALE		GRAY SHALE	2.5	51.0
687.3	CARBONDALE		SANDSTONE	26.5	53.5
660.8	CARBONDALE		DARK SHALE	24.0	80.0
636.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	104.0
636.4	CARBONDALE	TURNER MINE	SHALE	2.9	104.4
633.5	CARBONDALE	SPRINGFIELD	COAL	3.6	107.3
629.9	CARBONDALE		UNDERCLAY	1.1	110.9

MAPID: 05786086000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.080326

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680303

DATE COLLECTED: 4 / 25 / 1979

SURFACE ELEVATION (FT.): 738.8 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28292

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.8	PLEISTOCENE		SOIL	1.0	0.0	
737.8	PLEISTOCENE		CLAY	23.6	1.0	
714.2	SHELBURN		GRAY SHALE	11.4	24.6	
702.8	SHELBURN		SHALE & SANDSTONE	6.0	36.0	
696.8	SHELBURN		GRAY SHALE	7.2	42.0	
689.6	CARBONDALE	HERRIN	COAL	2.3	49.2	
687.3	CARBONDALE	HERRIN	BLUE BAND	0.2	51.5	
687.1	CARBONDALE	HERRIN	COAL	1.8	51.7	
685.3	CARBONDALE		SHALE/UNDERCLAY	4.5	53.5	
680.8	CARBONDALE		SANDSTONE	19.5	58.0	
661.3	CARBONDALE		GRAY SHALE	11.2	77.5	
650.1	CARBONDALE		LIMESTONE	0.5	88.7	
649.6	CARBONDALE		DARK SHALE	22.3	89.2	
627.3	CARBONDALE	ST. DAVID	LIMESTONE	0.5	111.5	
626.8	CARBONDALE	TURNER MINE	SHALE	3.0	112.0	
623.8	CARBONDALE	SPRINGFIELD	COAL	3.7	115.0	
620.1	CARBONDALE		UNDERCLAY	1.3	118.7	

MAPID: 05786097000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.081609

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682021

DATE COLLECTED: 4 / 25 / 1979

SURFACE ELEVATION (FT.): 734.3 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28293

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.3	PLEISTOCENE		SOIL	1.0	0.0	
733.3	PLEISTOCENE		CLAY	26.6	1.0	
706.7	PLEISTOCENE		CLAY & GRAVEL	20.4	27.6	
686.3	CARBONDALE	HERRIN	COAL	3.8	48.0	SOFT; TOP ERODED
682.5	CARBONDALE		SHALE/UNDERCLAY	3.2	51.8	

MAPID: 05786098000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.08041 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682062 DATE COLLECTED: 4 / 26 / 1979

SURFACE ELEVATION (FT.): 736.3 LOGGED (FT.): 115.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28294 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.3	PLEISTOCENE		SOIL	17.8	0.0	
718.5	PLEISTOCENE		BOULDER	1.0	17.8	
717.5	PLEISTOCENE		CLAY & GRAVEL	5.8	18.8	
711.7	CARBONDALE		SANDSTONE/SHALE	14.0	24.6	
697.7	CARBONDALE		GRAY SANDSTONE	1.4	38.6	
696.3	CARBONDALE	BRERETON	LIMESTONE	5.7	40.0	
690.6	CARBONDALE		CLAYSTONE	0.3	45.7	WHITE TOP
690.3	CARBONDALE	HERRIN	COAL	1.7	46.0	
688.6	CARBONDALE	HERRIN	BLUE BAND	0.2	47.7	
688.4	CARBONDALE	HERRIN	COAL	1.4	47.9	
687.0	CARBONDALE		SHALE/UNDERCLAY	5.7	49.3	
681.3	CARBONDALE		SANDSTONE	11.4	55.0	
669.9	CARBONDALE		GRAY SHALE	13.9	66.4	
656.0	CARBONDALE		DARK SHALE	24.6	80.3	
631.4	CARBONDALE	ST. DAVID	LIMESTONE	0.4	104.9	
631.0	CARBONDALE	TURNER MINE	SHALE	3.3	105.3	
627.7	CARBONDALE	SPRINGFIELD	COAL	3.7	108.6	
624.0	CARBONDALE		SHALE/UNDERCLAY	2.7	112.3	

MAPID: 05786099000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.08041 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682062 DATE COLLECTED: 4 / 26 / 1979

SURFACE ELEVATION (FT.): 736.3 LOGGED (FT.): 115.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28294 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.3	PLEISTOCENE		SOIL	17.8	0.0	
718.5	PLEISTOCENE		BOULDER	1.0	17.8	
717.5	PLEISTOCENE		CLAY & GRAVEL	5.8	18.8	
711.7	CARBONDALE		SANDSTONE/SHALE	14.0	24.6	
697.7	CARBONDALE		GRAY SANDSTONE	1.4	38.6	
696.3	CARBONDALE	BRERETON	LIMESTONE	5.7	40.0	
690.6	CARBONDALE		CLAYSTONE	0.3	45.7	WHITE TOP
690.3	CARBONDALE	HERRIN	COAL	1.7	46.0	
688.6	CARBONDALE	HERRIN	BLUE BAND	0.2	47.7	
688.4	CARBONDALE	HERRIN	COAL	1.4	47.9	
687.0	CARBONDALE		SHALE/UNDERCLAY	5.7	49.3	
681.3	CARBONDALE		SANDSTONE	11.4	55.0	
669.9	CARBONDALE		GRAY SHALE	13.9	66.4	
656.0	CARBONDALE		DARK SHALE	24.6	80.3	
631.4	CARBONDALE	ST. DAVID	LIMESTONE	0.4	104.9	
631.0	CARBONDALE	TURNER MINE	SHALE	3.3	105.3	
627.7	CARBONDALE	SPRINGFIELD	COAL	3.7	108.6	
624.0	CARBONDALE		SHALE/UNDERCLAY	2.7	112.3	

MAPID: 05786100000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.078199

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682029

DATE COLLECTED: 4 / 30 / 1979

SURFACE ELEVATION (FT.): 736.1 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28295

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
736.1	PLEISTOCENE		SOIL	26.5	0.0
709.6	CARBONDALE		GRAY SHALE	7.5	26.5
702.1	CARBONDALE	BRERETON	LIMESTONE	4.0	34.0
698.1	CARBONDALE	HERRIN	COAL	3.0	38.0
695.1	CARBONDALE		SHALE/UNDERCLAY	2.0	41.0
693.1	CARBONDALE		SANDSTONE	14.0	43.0
679.1	CARBONDALE		GRAY SHALE	17.8	57.0
661.3	CARBONDALE		DARK SHALE	20.9	74.8
640.4	CARBONDALE	ST. DAVID	LIMESTONE	0.3	95.7
640.1	CARBONDALE	TURNER MINE	SHALE	2.3	96.0
637.8	CARBONDALE	SPRINGFIELD	COAL	3.8	98.3
634.0	CARBONDALE		SHALE/UNDERCLAY	2.9	102.1

MAPID: 05786115000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.075704

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673163

DATE COLLECTED: 2 / 22 / 1979

SURFACE ELEVATION (FT.): 735.8 LOGGED (FT.): 121.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28384

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
735.8	PLEISTOCENE		CLAY	27.0	0.0
708.8	MODESTO		GRAY SHALE	5.5	27.0
703.3	MODESTO		SANDSTONE/SHALE	17.6	32.5
685.7	CARBONDALE	ANNA	BLACK SHALE	1.7	50.1
684.0	CARBONDALE	HERRIN	COAL	2.7	51.8
681.3	CARBONDALE	HERRIN	BLUE BAND	0.2	54.5
681.1	CARBONDALE	HERRIN	COAL	1.8	54.7
679.3	CARBONDALE		UNDERCLAY	1.6	56.5
677.7	CARBONDALE		MICACEOUS SHALE	5.9	58.1
671.8	CARBONDALE		SHALE & SANDSTONE	31.5	64.0
640.3	CARBONDALE		DARK SHALE	17.5	95.5
622.8	CARBONDALE	ST. DAVID	LIMESTONE	0.3	113.0
622.5	CARBONDALE	TURNER MINE	SHALE	2.7	113.3
619.8	CARBONDALE	SPRINGFIELD	COAL	3.7	116.0
616.1	CARBONDALE		UNDERCLAY	1.3	119.7

MAPID: 05786116000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.075645

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676485

DATE COLLECTED: 2 / 26 / 1979

SURFACE ELEVATION (FT.): 752.0 LOGGED (FT.): 133.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28388

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.0	PLEISTOCENE		CLAY	25.3	0.0	
726.7	CARBONDALE	DANVILLE	COAL	2.9	25.3	TOP ERODED
723.8	CARBONDALE		GRAY SHALE	16.1	28.2	
707.7	CARBONDALE		SANDSTONE/SHALE	21.7	44.3	
686.0	CARBONDALE	HERRIN	COAL	2.4	66.0	
683.6	CARBONDALE	HERRIN	BLUE BAND	0.2	68.4	
683.4	CARBONDALE	HERRIN	COAL	1.2	68.6	
682.2	CARBONDALE		UNDERCLAY	1.2	69.8	
681.0	CARBONDALE		MICACEOUS SHALE	14.0	71.0	
667.0	CARBONDALE		SHALE & SANDSTONE	27.0	85.0	
640.0	CARBONDALE		DARK SHALE	12.5	112.0	
627.5	CARBONDALE	TURNER MINE	SHALE	1.7	124.5	
625.8	CARBONDALE	SPRINGFIELD	COAL	3.8	126.2	
622.0	CARBONDALE		UNDERCLAY	3.0	130.0	

MAPID: 05786119000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.08247

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678433

DATE COLLECTED: 2 / 28 / 1979

SURFACE ELEVATION (FT.): 736.9 LOGGED (FT.): 65.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28388

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.9	PLEISTOCENE		CLAY	28.5	0.0	
708.4	CARBONDALE		SANDSTONE	31.0	28.5	
677.4			MICACEOUS SHALE	5.5	59.5	

MAPID: 0578612000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.080136

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6784

DATE COLLECTED: 2 / 28 / 1979

SURFACE ELEVATION (FT.): 742.5 LOGGED (FT.): 125.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28389

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.5	PLEISTOCENE		CLAY	28.0	0.0	
714.5	MODESTO		GRAY SHALE	5.0	28.0	
709.5	MODESTO		SANDSTONE	11.0	33.0	
698.5	MODESTO		GRAY SHALE	11.6	44.0	
686.9	CARBONDALE	ANNA	DARK SHALE	1.4	55.6	
685.5	CARBONDALE	HERRIN	COAL	2.0	57.0	
683.5	CARBONDALE	HERRIN	BLUE BAND	0.2	59.0	
683.3	CARBONDALE	HERRIN	COAL	2.0	59.2	
681.3	CARBONDALE		UNDERCLAY	1.8	61.2	
679.5	CARBONDALE		SHALE & SANDSTONE	40.5	63.0	
639.0	CARBONDALE		DARK SHALE	13.1	103.5	
625.9	CARBONDALE	ST. DAVID	LIMESTONE	0.4	116.6	
625.5	CARBONDALE	TURNER MINE	DARK SHALE	1.5	117.0	
624.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	118.5	
622.7	CARBONDALE	SPRINGFIELD	COAL	3.9	119.8	
618.8	CARBONDALE		UNDERCLAY	1.3	123.7	

MAPID: 05786121000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.083827

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680288

DATE COLLECTED: 3 / 1 / 1979

SURFACE ELEVATION (FT.): 734.7 LOGGED (FT.): 53.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28390

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.7	PLEISTOCENE		CLAY	27.0	0.0	YELLOW
707.7	PLEISTOCENE		CLAY	5.0	27.0	GRAY
702.7	MODESTO		SANDSTONE	6.5	32.0	
696.2	MODESTO		SHALE & SANDSTONE	7.5	38.5	
688.7	CARBONDALE	ANNA	DARK SHALE	1.0	46.0	
687.7	CARBONDALE	HERRIN	COAL	2.0	47.0	
685.7	CARBONDALE	HERRIN	BLUE BAND	0.2	49.0	
685.5	CARBONDALE	HERRIN	COAL	1.6	49.2	
683.9	CARBONDALE		UNDERCLAY	2.2	50.8	

MAPID: 05786122000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.086255

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680301

DATE COLLECTED: 3 / 1 / 1979

SURFACE ELEVATION (FT.): 733.2 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28391

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.2	PLEISTOCENE		CLAY	26.0	0.0	YELLOW
707.2	PLEISTOCENE		CLAY	12.5	26.0	GRAY
694.7	SHELURN		GRAY SHALE	10.6	38.5	
684.1	CARBONDALE	HERRIN	COAL	2.9	49.1	
681.2	CARBONDALE		UNDERCLAY	3.0	52.0	

MAPID: 05786123000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.086894

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680058

DATE COLLECTED: 3 / 1 / 1979

SURFACE ELEVATION (FT.): 732.5 LOGGED (FT.): 53.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28392

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.5	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
704.5	PLEISTOCENE		CLAY	16.5	28.0	GRAY
688.0	CARBONDALE		GRAY SHALE	0.5	44.5	
687.5	CARBONDALE	BRERETON	LIMESTONE	1.5	45.0	
686.0	CARBONDALE		CLAYSTONE	0.6	46.5	WHITE TOP
685.4	CARBONDALE	HERRIN	COAL	1.9	47.1	
683.5	CARBONDALE	HERRIN	BLUE BAND	0.2	49.0	
683.3	CARBONDALE	HERRIN	COAL	1.9	49.2	
681.4	CARBONDALE		UNDERCLAY	1.9	51.1	

MAPID: 05786124000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.087112

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680173

DATE COLLECTED: 3 / 1 / 1979

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 52.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28393

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.0	PLEISTOCENE		CLAY	26.0	0.0	
706.0	CARBONDALE		GRAY SHALE	14.0	26.0	
692.0	CARBONDALE		DARK SHALE	3.6	40.0	
688.4	CARBONDALE	BRERETON	LIMESTONE	1.6	43.6	
686.8	CARBONDALE		CLAYSTONE	0.9	45.2	WHITE TOP
685.9	CARBONDALE	HERRIN	COAL	2.1	46.1	
683.8	CARBONDALE	HERRIN	BLUE BAND	0.2	48.2	
683.6	CARBONDALE	HERRIN	COAL	1.7	48.4	
681.9	CARBONDALE		UNDERCLAY	1.9	50.1	

MAPID: 05786125000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.087058

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680548

DATE COLLECTED: 3 / 2 / 1979

SURFACE ELEVATION (FT.): 731.0 LOGGED (FT.): 52.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28395

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.0	PLEISTOCENE		CLAY	38.0	0.0	
693.0	MODESTO		GRAY SHALE	6.9	38.0	
686.1	CARBONDALE	ANNA	BLACK SHALE	1.1	44.9	
685.0	CARBONDALE	HERRIN	COAL	2.2	46.0	
682.8	CARBONDALE	HERRIN	BLUE BAND	0.2	48.2	
682.6	CARBONDALE	HERRIN	COAL	1.8	48.4	
680.8	CARBONDALE		UNDERCLAY	1.8	50.2	

MAPID: 05786126000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.087294

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680705

DATE COLLECTED: 3 / 2 / 1979

SURFACE ELEVATION (FT.): 728.6 LOGGED (FT.): 51.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28396

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
728.6	PLEISTOCENE		CLAY	39.0	0.0	YELLOW
689.6	PLEISTOCENE		CLAY	4.0	39.0	GRAY
685.6	SHELBURN		GRAY SHALE	2.5	43.0	
683.1	CARBONDALE	HERRIN	COAL	1.9	45.5	
681.2	CARBONDALE	HERRIN	BLUE BAND	0.2	47.4	
681.0	CARBONDALE	HERRIN	COAL	1.8	47.6	
679.2	CARBONDALE		UNDERCLAY	1.6	49.4	

MAPID: 05786127000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.087204

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.681094

DATE COLLECTED: 3 / 2 / 1979

SURFACE ELEVATION (FT.): 727.7 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28397

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
727.7	PLEISTOCENE		CLAY	32.0	0.0	YELLOW
695.7	PLEISTOCENE		CLAY	28.0	32.0	GRAY

MAPID: 05786128000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.086927

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680919

DATE COLLECTED: 3 / 2 / 1979

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28398

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
730.0	PLEISTOCENE		CLAY	25.0	0.0	YELLOW
705.0	PLEISTOCENE		CLAY	21.0	25.0	GRAY
684.0	PLEISTOCENE		SAND & GRAVEL	14.0	46.0	

MAPID: 05786129000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.086599

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680705

DATE COLLECTED: 3 / 2 / 1979

SURFACE ELEVATION (FT.): 731.2 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28399

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.2	PLEISTOCENE		CLAY	28.5	0.0	YELLOW
702.7	PLEISTOCENE		CLAY	14.5	28.5	GRAY
688.2	CARBONDALE		GRAY SHALE	3.5	43.0	
684.7	CARBONDALE	BRERETON	LIMESTONE	2.9	46.5	
681.8	CARBONDALE		CLAYSTONE	0.6	49.4	WHITE TOP
681.2	CARBONDALE	HERRIN	COAL	2.1	50.0	
679.1	CARBONDALE	HERRIN	BLUE BAND	0.2	52.1	
678.9	CARBONDALE	HERRIN	COAL	1.3	52.3	
677.6	CARBONDALE		UNDERCLAY	1.4	53.6	

MAPID: 05786132000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.073273

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678441

DATE COLLECTED: 5 / 7 / 1979

SURFACE ELEVATION (FT.): 752.1 LOGGED (FT.): 124.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28402

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
752.1	PLEISTOCENE		SOIL	30.0	0.0	
722.1	SHELBURN		GRAY SANDSTONE	16.5	30.0	
705.6	SHELBURN		GRAY SHALE	9.5	46.5	
696.1	CARBONDALE	HERRIN	COAL	2.2	56.0	
693.9	CARBONDALE	HERRIN	BLUE BAND	0.2	58.2	
693.7	CARBONDALE	HERRIN	COAL	1.9	58.4	
691.8	CARBONDALE		UNDERCLAY	1.7	60.3	
690.1	CARBONDALE		GRAY SHALE	5.3	62.0	
684.8	CARBONDALE		SANDSTONE	4.3	67.3	
680.5	CARBONDALE		GRAY SHALE	11.4	71.6	
669.1	CARBONDALE		LIMESTONE	0.3	83.0	
668.8	CARBONDALE		DARK SHALE	31.7	83.3	
637.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	115.0	
636.7	CARBONDALE	TURNER MINE	SHALE	2.6	115.4	
634.1	CARBONDALE	SPRINGFIELD	COAL	3.8	118.0	
630.3	CARBONDALE		UNDERCLAY	2.2	121.8	

MAPID: 05786139000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.073098

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673046

DATE COLLECTED: 5 / 9 / 1979

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 117.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28411

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
732.0	PLEISTOCENE		SOIL	1.0	0.0
731.0	PLEISTOCENE		CLAY	17.0	1.0
714.0	PLEISTOCENE		CLAY & GRAVEL	4.6	18.0
709.4	CARBONDALE		SANDSTONE	8.9	22.6
700.5	CARBONDALE		GRAY SHALE	14.5	31.5
686.0	CARBONDALE	BRERETON	LIMESTONE	2.0	46.0
684.0	CARBONDALE		CLAYSTONE	2.0	48.0
682.0	CARBONDALE	HERRIN	COAL	2.2	50.0
679.8	CARBONDALE		UNDERCLAY	1.8	52.2
678.0	CARBONDALE		GRAY SHALE	2.0	54.0
676.0	CARBONDALE		SANDSTONE	18.7	56.0
657.3	CARBONDALE		SHALE & SANDSTONE	15.6	74.7
641.7	CARBONDALE		LIMESTONE	0.3	90.3
641.4	CARBONDALE		DARK SHALE	17.2	90.6
624.2	CARBONDALE	ST. DAVID	LIMESTONE	0.5	107.8
623.7	CARBONDALE	TURNER MINE	SHALE	3.1	108.3
620.6	CARBONDALE	SPRINGFIELD	COAL	3.7	111.4
616.9	CARBONDALE		UNDERCLAY	1.9	115.1

MAPID: 0578614000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.073258

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674888

DATE COLLECTED: 5 / 9 / 1979

SURFACE ELEVATION (FT.): 739.8 LOGGED (FT.): 121.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28412

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
739.8	PLEISTOCENE		SOIL	1.0	0.0	
738.8	PLEISTOCENE		CLAY	22.5	1.0	
716.3	PLEISTOCENE		SANDY CLAY	2.0	23.5	
714.3	CARBONDALE		GRAY SANDSTONE	4.8	25.5	
709.5	CARBONDALE		SHALE & SANDSTONE	19.5	30.3	
690.0	CARBONDALE	BRERETON	LIMESTONE	2.5	49.8	
687.5	CARBONDALE	HERRIN	COAL	2.5	52.3	
685.0	CARBONDALE	HERRIN	BLUE BAND	0.2	54.8	
684.8	CARBONDALE	HERRIN	COAL	1.6	55.0	
683.2	CARBONDALE		SHALE/UNDERCLAY	2.4	56.6	
680.8	CARBONDALE		GRAY SHALE	2.8	59.0	
678.0	CARBONDALE		SHALE & SANDSTONE	23.1	61.8	
654.9	CARBONDALE		LIMESTONE	0.3	84.9	
654.6	CARBONDALE		DARK SHALE	27.0	85.2	
627.6	CARBONDALE	ST. DAVID	LIMESTONE	0.8	112.2	
626.8	CARBONDALE	TURNER MINE	SHALE	2.2	113.0	
624.6	CARBONDALE	SPRINGFIELD	COAL	3.8	115.2	
620.8	CARBONDALE		UNDERCLAY	2.0	119.0	

MAPID: 05786271000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 17 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.087582

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680008

DATE COLLECTED: 3 / 1 / 1979

SURFACE ELEVATION (FT.): 731.8 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28394

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.8	PLEISTOCENE		CLAY	29.0	0.0	YELLOW
702.8	PLEISTOCENE		CLAY	11.0	29.0	GRAY
691.8	CARBONDALE		GRAY SHALE	1.4	40.0	
690.4	CARBONDALE	BRERETON	LIMESTONE	3.6	41.4	
686.8	CARBONDALE		CLAYSTONE	0.7	45.0	WHITE TOP
686.1	CARBONDALE	HERRIN	COAL	2.3	45.7	
683.8	CARBONDALE		UNDERCLAY	2.0	48.0	

MAPID: 05784369000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101115

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676779

DATE COLLECTED:

SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT1

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.0			UNKNOWN	100.0	0.0	NO COAL

MAPID: 05784379000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098813

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671245

DATE COLLECTED:

SURFACE ELEVATION (FT.): 734.0 LOGGED (FT.): 99.6

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT16

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.0			UNKNOWN	95.4	0.0	
638.6	CARBONDALE	SPRINGFIELD	COAL	4.2	95.4	

MAPID: 05784380000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098057

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673048

DATE COLLECTED:

SURFACE ELEVATION (FT.): 731.0 LOGGED (FT.): 91.9

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT22

WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.0			UNKNOWN	87.7	0.0	
643.3	CARBONDALE	SPRINGFIELD	COAL	4.2	87.7	

MAPID: 05784382000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09927 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675947 DATE COLLECTED:

SURFACE ELEVATION (FT.): 715.0 LOGGED (FT.): 110.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT26 WELL TYPE: Coal Test

COMMENT: LOC AND DATA DIGITIZED FROM CO. MAP 10

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.0			UNKNOWN	110.0	0.0	NO COAL

MAPID: 05786051000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.087195 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678343 DATE COLLECTED: 2 / 1 / 1979

SURFACE ELEVATION (FT.): 731.3 LOGGED (FT.): 115.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28235 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.3	PLEISTOCENE		SOIL	26.0	0.0	
705.3	PLEISTOCENE		SANDY CLAY	31.8	26.0	
673.5	CARBONDALE		SANDSTONE	6.2	57.8	
667.3	CARBONDALE		GRAY SHALE	18.8	64.0	
648.5	CARBONDALE		DARK SHALE	12.0	82.8	
636.5	CARBONDALE		LIMESTONE	0.7	94.8	
635.8	CARBONDALE		DARK SHALE	14.1	95.5	
621.7	CARBONDALE	SPRINGFIELD	COAL	3.7	109.6	
618.0	CARBONDALE		UNDERCLAY	1.7	113.3	

MAPID: 05786052000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.085105

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676734

DATE COLLECTED: 2 / 1 / 1979

SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 122.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28236

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.0	PLEISTOCENE		SOIL	1.0	0.0	
736.0	PLEISTOCENE		CLAY	23.6	1.0	
712.4	MODESTO		SHALE	5.4	24.6	SOFT & RED
707.0	MODESTO		SHALE & SANDSTONE	28.4	30.0	
678.6	CARBONDALE	HERRIN	COAL	2.1	58.4	
676.5	CARBONDALE		SHALE/UNDERCLAY	3.3	60.5	
673.2	CARBONDALE		SANDSTONE	9.1	63.8	HARD
664.1	CARBONDALE		GRAY SHALE	5.9	72.9	
658.2	CARBONDALE		SANDSTONE	8.8	78.8	
649.4	CARBONDALE		DARK SHALE	16.2	87.6	
633.2	CARBONDALE		DARK SANDSTONE	9.8	103.8	
623.4	CARBONDALE	ST. DAVID	LIMESTONE	1.2	113.6	
622.2	CARBONDALE	TURNER MINE	SHALE	2.6	114.8	
619.6	CARBONDALE	SPRINGFIELD	COAL	3.6	117.4	
616.0	CARBONDALE		UNDERCLAY	1.0	121.0	

MAPID: 05786053000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082909

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676748

DATE COLLECTED: 2 / 5 / 1979

SURFACE ELEVATION (FT.): 738.2 LOGGED (FT.): 122.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28237

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
738.2	PLEISTOCENE		SOIL	1.0	0.0
737.2	PLEISTOCENE		CLAY	19.3	1.0
717.9	SHELBURN		SANDSTONE	14.7	20.3
703.2	SHELBURN		GRAY SANDSTONE	23.6	35.0
679.6	CARBONDALE		SHALE/UNDERCLAY	3.2	58.6
676.4	CARBONDALE		SANDSTONE	8.2	61.8
668.2	CARBONDALE		SHALE & SANDSTONE	18.8	70.0
649.4	CARBONDALE		LIMESTONE	0.3	88.8
649.1	CARBONDALE		DARK SHALE	23.9	89.1
625.2	CARBONDALE	ST. DAVID	LIMESTONE	1.0	113.0
624.2	CARBONDALE	TURNER MINE	SHALE	3.3	114.0
620.9	CARBONDALE	SPRINGFIELD	COAL	3.7	117.3
617.2	CARBONDALE		UNDERCLAY	1.0	121.0

MAPID: 05786054000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082845

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.68031

DATE COLLECTED: 2 / 7 / 1979

SURFACE ELEVATION (FT.): 735.1 LOGGED (FT.): 118.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28238

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.1	PLEISTOCENE		SOIL	1.0	0.0	
734.1	PLEISTOCENE		CLAY	21.6	1.0	
712.5	CARBONDALE		SANDY SHALE	3.6	22.6	
708.9	CARBONDALE		GRAY SANDSTONE	21.8	26.2	
687.1	CARBONDALE	BRERETON	LIMESTONE	3.0	48.0	HARD
684.1	CARBONDALE		CLAYSTONE	0.8	51.0	WHITE TOP
683.3	CARBONDALE	HERRIN	COAL	2.4	51.8	
680.9	CARBONDALE		UNDERCLAY	1.8	54.2	
679.1	CARBONDALE		GRAY SHALE	6.8	56.0	
672.3	CARBONDALE		SANDSTONE	6.8	62.8	
665.5	CARBONDALE		GRAY SHALE	8.4	69.6	
657.1	CARBONDALE		SANDSTONE	2.2	78.0	
654.9	CARBONDALE		GRAY SHALE	9.8	80.2	
645.1	CARBONDALE		DARK SHALE	18.5	90.0	
626.6	CARBONDALE	ST. DAVID	LIMESTONE	0.7	108.5	
625.9	CARBONDALE	TURNER MINE	SHALE	3.0	109.2	
622.9	CARBONDALE	SPRINGFIELD	COAL	3.4	112.2	
619.5	CARBONDALE		UNDERCLAY	2.4	115.6	

MAPID: 05786055000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082746

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.68191

DATE COLLECTED: 2 / 8 / 1979

SURFACE ELEVATION (FT.): 729.4 LOGGED (FT.): 111.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28239

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
729.4	PLEISTOCENE		SOIL	1.0	0.0
728.4	PLEISTOCENE		CLAY	24.0	1.0
704.3	PLEISTOCENE		CLAY & GRAVEL	22.0	25.1
682.4	PLEISTOCENE		BOULDER	1.0	47.0
681.4	CARBONDALE		GRAY SHALE	10.2	48.0
671.2	CARBONDALE		SANDSTONE	6.3	58.2
664.9	CARBONDALE		GRAY SHALE	14.2	64.5
650.7	CARBONDALE		DARK SHALE	15.4	78.7
635.3	CARBONDALE		LIMESTONE	0.3	94.1
635.0	CARBONDALE		DARK SHALE	8.5	94.4
626.5	CARBONDALE	ST. DAVID	LIMESTONE	0.5	102.9
626.0	CARBONDALE	TURNER MINE	SHALE	2.6	103.4
623.4	CARBONDALE	SPRINGFIELD	COAL	3.8	106.0
619.6	CARBONDALE		UNDERCLAY	1.2	109.8

MAPID: 05786056000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.085081

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675187

DATE COLLECTED: 2 / 8 / 1979

SURFACE ELEVATION (FT.): 736.8 LOGGED (FT.): 122.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28240

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.8	PLEISTOCENE		SOIL	29.0	0.0	
707.8	PLEISTOCENE		CLAY	7.5	29.0	
700.3	SHELBURN		GRAY SHALE	6.5	36.5	SOFT
693.8	SHELBURN		SANDSTONE	13.0	43.0	
680.8	CARBONDALE	HERRIN	COAL	2.7	56.0	TOP ERODED
678.1	CARBONDALE		UNDERCLAY	2.3	58.7	
675.8	CARBONDALE		GRAY SHALE	5.2	61.0	
670.6	CARBONDALE		SANDSTONE	14.1	66.2	
656.5	CARBONDALE		GRAY SHALE	7.7	80.3	
648.8	CARBONDALE		DARK SHALE	25.6	88.0	
623.2	CARBONDALE	ST. DAVID	LIMESTONE	0.6	113.6	
622.6	CARBONDALE	TURNER MINE	SHALE	2.8	114.2	
619.8	CARBONDALE	SPRINGFIELD	COAL	3.7	117.0	
616.1	CARBONDALE		UNDERCLAY	1.3	120.7	

MAPID: 05786057000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.087405

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676662

DATE COLLECTED: 2 / 12 / 1979

SURFACE ELEVATION (FT.): 729.2 LOGGED (FT.): 112.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28241

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
729.2	PLEISTOCENE		SOIL	20.0	0.0
709.2	SHELBURN		SANDSTONE	3.4	20.0
705.8	CARBONDALE		GRAY SANDSTONE	4.6	23.4
701.2	CARBONDALE		GRAY SHALE	11.1	28.0
690.1	CARBONDALE	BRERETON	LIMESTONE	1.6	39.1
688.5	CARBONDALE	ANNA	BLACK SHALE	1.7	40.7
686.8	CARBONDALE	HERRIN	COAL	2.6	42.4
684.2	CARBONDALE	HERRIN	BLUE BAND	0.2	45.0
684.0	CARBONDALE	HERRIN	COAL	1.6	45.2
682.4	CARBONDALE		SHALE/UNDERCLAY	3.2	46.8
679.2	CARBONDALE		GRAY SHALE	4.3	50.0
674.9	CARBONDALE		SANDSTONE	3.7	54.3
671.2	CARBONDALE		GRAY SHALE	1.5	58.0
669.7	CARBONDALE		SANDSTONE	1.5	59.5
668.2	CARBONDALE		GRAY SHALE	19.0	61.0
649.2	CARBONDALE		DARK SHALE	24.0	80.0
625.2	CARBONDALE	ST. DAVID	LIMESTONE	0.5	104.0
624.7	CARBONDALE	TURNER MINE	SHALE	2.5	104.5
622.2	CARBONDALE	SPRINGFIELD	COAL	3.8	107.0
618.4	CARBONDALE		UNDERCLAY	1.2	110.8

MAPID: 05786058000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.086917

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675031

DATE COLLECTED: 2 / 13 / 1979

SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28242

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.0	PLEISTOCENE		SOIL	26.6	0.0	
708.4	CARBONDALE		SANDSTONE	2.4	26.6	SOFT
706.0	CARBONDALE		GRAY SHALE	14.0	29.0	
692.0	CARBONDALE	BRERETON	LIMESTONE	2.4	43.0	
689.6	CARBONDALE		CLAYSTONE	1.0	45.4	WHITE TOP
688.6	CARBONDALE	HERRIN	COAL	1.9	46.4	
686.7	CARBONDALE	HERRIN	BLUE BAND	0.2	48.3	
686.5	CARBONDALE	HERRIN	COAL	1.5	48.5	
685.0	CARBONDALE		SHALE/UNDERCLAY	2.7	50.0	
682.3	CARBONDALE		GRAY SANDSTONE	15.3	52.7	
667.0	CARBONDALE		GRAY SHALE	19.5	68.0	
647.5	CARBONDALE		LIMESTONE	1.3	87.5	
646.2	CARBONDALE		DARK SHALE	18.0	88.8	
628.2	CARBONDALE	ST. DAVID	LIMESTONE	0.7	106.8	
627.5	CARBONDALE	TURNER MINE	SHALE	2.5	107.5	
625.0	CARBONDALE	SPRINGFIELD	COAL	3.7	110.0	
621.3	CARBONDALE		UNDERCLAY	1.3	113.7	

MAPID: 05786059000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.08713

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67327

DATE COLLECTED: 2 / 13 / 1978

SURFACE ELEVATION (FT.): 724.2 LOGGED (FT.): 103.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28243

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
724.2	PLEISTOCENE		SOIL	18.0	0.0
706.2	SHELBURN		SANDSTONE	5.8	18.0
700.4	SHELBURN		GRAY SHALE	10.8	23.8
689.6	CARBONDALE	HERRIN	COAL	3.4	34.6
686.2	CARBONDALE		UNDERCLAY	2.0	38.0
684.2	CARBONDALE		GRAY SHALE	5.5	40.0
678.7	CARBONDALE		SANDSTONE	2.5	45.5
676.2	CARBONDALE		GRAY SHALE	27.8	48.0
648.4	CARBONDALE		DARK SHALE	10.2	75.8
638.2	CARBONDALE		LIMESTONE	0.8	86.0
637.4	CARBONDALE		DARK SHALE	7.1	86.8
630.3	CARBONDALE	ST. DAVID	LIMESTONE	0.7	93.9
629.6	CARBONDALE	TURNER MINE	SHALE	3.0	94.6
626.6	CARBONDALE	SPRINGFIELD	COAL	3.6	97.6
623.0	CARBONDALE		UNDERCLAY	1.8	101.2

MAPID: 0578606000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082827

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672171

DATE COLLECTED: 2 / 14 / 1979

SURFACE ELEVATION (FT.): 724.3 LOGGED (FT.): 103.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28244

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
724.3	PLEISTOCENE		SOIL	16.5	0.0
707.8	SHELBURN		SANDSTONE	1.4	16.5
706.4	SHELBURN		GRAY SANDSTONE	4.1	17.9
702.3	SHELBURN		GRAY SHALE	10.7	22.0
691.6	CARBONDALE	ANNA	DARK SHALE	1.8	32.7
689.8	CARBONDALE	HERRIN	COAL	2.3	34.5
687.5	CARBONDALE	HERRIN	BLUE BAND	0.2	36.8
687.3	CARBONDALE	HERRIN	COAL	1.7	37.0
685.6	CARBONDALE		UNDERCLAY	2.3	38.7
683.3	CARBONDALE		GRAY SHALE	3.5	41.0
679.8	CARBONDALE		SANDSTONE	3.3	44.5
676.5	CARBONDALE		SHALE & SANDSTONE	21.4	47.8
655.1	CARBONDALE		DARK SHALE	15.0	69.2
640.1	CARBONDALE		LIMESTONE	0.5	84.2
639.6	CARBONDALE		DARK SHALE	9.3	84.7
630.3	CARBONDALE	ST. DAVID	LIMESTONE	1.5	94.0
628.8	CARBONDALE	TURNER MINE	SHALE	1.9	95.5
626.9	CARBONDALE	SPRINGFIELD	COAL	3.7	97.4
623.2	CARBONDALE		UNDERCLAY	1.9	101.1

MAPID: 05786061000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.078586

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670754

DATE COLLECTED: 2 / 15 / 1979

SURFACE ELEVATION (FT.): 708.7 LOGGED (FT.): 86.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28245

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
708.7	PLEISTOCENE		CLAY & GRAVEL	10.0	0.0
698.7	PLEISTOCENE		CLAY & GRAVEL	5.2	10.0
693.5	SHELBURN		GRAY SHALE	3.0	15.2
690.5	CARBONDALE	HERRIN	COAL	2.3	18.2
688.2	CARBONDALE	HERRIN	BLUE BAND	0.2	20.5
688.0	CARBONDALE	HERRIN	COAL	2.0	20.7
686.0	CARBONDALE		UNDERCLAY	2.3	22.7
683.7	CARBONDALE		GRAY SHALE	5.8	25.0
677.9	CARBONDALE		SANDSTONE	4.2	30.8
673.7	CARBONDALE		GRAY SHALE	7.1	35.0
666.6	CARBONDALE		LIMESTONE	2.4	42.1
664.2	CARBONDALE		GRAY SHALE	11.5	44.5
652.7	CARBONDALE		DARK SHALE	13.6	56.0
639.1	CARBONDALE		LIMESTONE	0.5	69.6
638.6	CARBONDALE		DARK SHALE	7.4	70.1
631.2	CARBONDALE	ST. DAVID	LIMESTONE	0.9	77.5
630.3	CARBONDALE	TURNER MINE	SHALE	2.6	78.4
627.7	CARBONDALE	SPRINGFIELD	COAL	3.7	81.0
624.0	CARBONDALE		UNDERCLAY	1.3	84.7

MAPID: 05786062000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.080068

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670711

DATE COLLECTED: 2 / 16 / 1979

SURFACE ELEVATION (FT.): 705.3 LOGGED (FT.): 82.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28246

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.3	PLEISTOCENE		SANDY CLAY	8.0	0.0	
697.3	SHELBURN		SHALE	6.0	8.0	SOFT
691.3	CARBONDALE	HERRIN	COAL	2.6	14.0	SOFT PARTLY BROKEN
688.7	CARBONDALE		UNDERCLAY	2.4	16.6	
686.3	CARBONDALE		SHALE & SANDSTONE	16.0	19.0	
670.3	CARBONDALE		SANDSTONE	1.9	35.0	
668.4	CARBONDALE		GRAY SHALE	13.1	36.9	
655.3	CARBONDALE		DARK SHALE	23.9	50.0	
631.4	CARBONDALE	ST. DAVID	LIMESTONE	1.2	73.9	
630.2	CARBONDALE	TURNER MINE	SHALE	1.9	75.1	
628.3	CARBONDALE	SPRINGFIELD	COAL	3.6	77.0	
624.7	CARBONDALE		UNDERCLAY	1.4	80.6	

MAPID: 05786068000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.075371

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67495

DATE COLLECTED:

SURFACE ELEVATION (FT.): 741.9 LOGGED (FT.): 130.0

LOG TYPE: Lithologic Log

SOURCE: MIDLAND COAL CO. FARMEAST 28252

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.9	PLEISTOCENE		SOIL	20.1	0.0	
721.8	MODESTO		BLACK SHALE	0.8	20.1	VERY SOFT
721.0	CARBONDALE	DANVILLE	COAL	2.2	20.9	SOFT
718.8	CARBONDALE		CLAYSTONE	9.9	23.1	GRAY
708.9	CARBONDALE		SANDSTONE	4.9	33.0	GRAY
704.0	CARBONDALE		SHALE & SANDSTONE	13.9	37.9	
690.1	CARBONDALE		GRAY SHALE	7.2	51.8	
682.9	CARBONDALE	HERRIN	COAL	2.6	59.0	
680.3	CARBONDALE	HERRIN	BLUE BAND	0.2	61.6	
680.1	CARBONDALE	HERRIN	COAL	1.7	61.8	
678.4	CARBONDALE		SHALE/UNDERCLAY	5.0	63.5	
673.4	CARBONDALE		LIMESTONE	3.1	68.5	
670.3	CARBONDALE		SANDSTONE	6.9	71.6	
663.4	CARBONDALE		SHALE & SANDSTONE	14.1	78.5	
649.3	CARBONDALE		DARK SHALE	26.2	92.6	
623.1	CARBONDALE	ST. DAVID	LIMESTONE	1.0	118.8	
622.1	CARBONDALE	ST. DAVID	LIMESTONE	2.8	119.8	
619.3	CARBONDALE	SPRINGFIELD	COAL	3.8	122.6	
615.5	CARBONDALE		SHALE/UNDERCLAY	3.6	126.4	

MAPID: 05786069000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.078104

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674997

DATE COLLECTED: 2 / 23 / 1979

SURFACE ELEVATION (FT.): 741.0 LOGGED (FT.): 126.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28253

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
741.0	PLEISTOCENE		SOIL	26.8	0.0	
714.2	SHELBURN		GRAY SHALE	2.2	26.8	SOFT
712.0	SHELBURN		SANDSTONE	21.3	29.0	
690.7	SHELBURN		GRAY SHALE	6.5	50.3	
684.2	CARBONDALE	HERRIN	COAL	2.0	56.8	
682.2	CARBONDALE	HERRIN	BLUE BAND	0.2	58.8	
682.0	CARBONDALE	HERRIN	COAL	1.8	59.0	
680.2	CARBONDALE		SHALE/UNDERCLAY	3.3	60.8	
676.9	CARBONDALE		SANDSTONE	26.7	64.1	
650.2	CARBONDALE		DARK SHALE	25.0	90.8	
625.2	CARBONDALE	ST. DAVID	LIMESTONE	1.2	115.8	
624.0	CARBONDALE	TURNER MINE	SHALE	2.7	117.0	
621.3	CARBONDALE	SPRINGFIELD	COAL	3.8	119.7	
617.5	CARBONDALE		SHALE/UNDERCLAY	2.5	123.5	

MAPID: 05786070000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.080647

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674941

DATE COLLECTED: 2 / 26 / 1979

SURFACE ELEVATION (FT.): 739.4 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28254

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
739.4	PLEISTOCENE		SOIL	28.6	0.0
710.8	SHELBURN		GRAY SHALE	5.7	28.6
705.1	SHELBURN		SANDSTONE	12.9	34.3
692.2	SHELBURN		LIMESTONE	0.3	47.2
691.9	SHELBURN		GRAY SHALE	4.3	47.5
687.6	CARBONDALE	ANNA	DARK SHALE	0.6	51.8
687.0	CARBONDALE	HERRIN	COAL	2.6	52.4
684.4	CARBONDALE	HERRIN	BLUE BAND	0.2	55.0
684.2	CARBONDALE	HERRIN	COAL	1.7	55.2
682.5	CARBONDALE		SHALE/UNDERCLAY	3.9	56.9
678.6	CARBONDALE		SANDSTONE	4.8	60.8
673.8	CARBONDALE		SHALE & SANDSTONE	18.4	65.6
655.4	CARBONDALE		GRAY SHALE	6.3	84.0
649.1	CARBONDALE		DARK SHALE	21.5	90.3
627.6	CARBONDALE	ST. DAVID	LIMESTONE	0.5	111.8
627.1	CARBONDALE	TURNER MINE	SHALE	2.7	112.3
624.4	CARBONDALE	SPRINGFIELD	COAL	3.6	115.0
620.8	CARBONDALE		UNDERCLAY	1.4	118.6

MAPID: 05786075000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.086518

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678435

DATE COLLECTED: 3 / 1 / 1979

SURFACE ELEVATION (FT.): 733.3 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28259

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
733.3	PLEISTOCENE		SOIL	23.0	0.0
710.3	PLEISTOCENE		CLAY & GRAVEL	8.8	23.0
701.5	SHELBURN		GRAY SHALE	17.8	31.8
683.7	CARBONDALE	HERRIN	COAL	2.0	49.6
681.7	CARBONDALE	HERRIN	BLUE BAND	0.2	51.6
681.5	CARBONDALE	HERRIN	COAL	1.7	51.8
679.8	CARBONDALE		UNDERCLAY	1.5	53.5

MAPID: 05786076000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.08673 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678235 DATE COLLECTED: 3 / 1 / 1979

SURFACE ELEVATION (FT.): 732.5 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28260 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
732.5	PLEISTOCENE		SOIL	27.0	0.0
705.5	PLEISTOCENE		CLAY & GRAVEL	33.0	27.0

MAPID: 05786077000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.086837 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6785 DATE COLLECTED: 3 / 1 / 1979

SURFACE ELEVATION (FT.): 733.0 LOGGED (FT.): 55.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28261 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
733.0	PLEISTOCENE		SOIL	22.8	0.0
710.2	PLEISTOCENE		BOULDER	1.0	22.8
709.2	PLEISTOCENE		CLAY & GRAVEL	21.4	23.8
687.8	SHELBURN		GRAY SHALE	2.6	45.2
685.2	CARBONDALE	HERRIN	COAL	2.5	47.8
682.7	CARBONDALE	HERRIN	BLUE BAND	0.2	50.3
682.5	CARBONDALE	HERRIN	COAL	1.5	50.5
681.0	CARBONDALE		SHALE/UNDERCLAY	3.0	52.0

MAPID: 05786078000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.087197

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678644

DATE COLLECTED: 3 / 1 / 1979

SURFACE ELEVATION (FT.): 731.9 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28262

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
731.9	PLEISTOCENE		SOIL	22.9	0.0
709.0	PLEISTOCENE		CLAY & GRAVEL	10.5	22.9
698.5	CARBONDALE		BROWN SHALE	5.6	33.4
692.9	CARBONDALE		GRAY SHALE	3.6	39.0
689.3	CARBONDALE	BRERETON	LIMESTONE	1.4	42.6
687.9	CARBONDALE	ANNA	DARK SHALE	0.5	44.0
687.4	CARBONDALE	HERRIN	COAL	2.6	44.5
684.8	CARBONDALE	HERRIN	BLUE BAND	0.2	47.1
684.6	CARBONDALE	HERRIN	COAL	1.6	47.3
683.0	CARBONDALE		UNDERCLAY	1.1	48.9

MAPID: 05786101000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082712

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682225

DATE COLLECTED: 5 / 3 / 1979

SURFACE ELEVATION (FT.): 732.8 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28299

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
732.8	PLEISTOCENE		CLAY	18.5	0.0
714.3	PLEISTOCENE		BOULDER	3.5	18.5
710.8	PLEISTOCENE		CLAY & GRAVEL	8.3	22.0
702.5	CARBONDALE		SHALE & SANDSTONE	12.7	30.3
689.8	CARBONDALE	BRERETON	LIMESTONE	2.6	43.0
687.2	CARBONDALE		CLAYSTONE	1.4	45.6 WHITE TOP
685.8	CARBONDALE	HERRIN	COAL	1.9	47.0
683.9	CARBONDALE		UNDERCLAY	1.1	48.9

MAPID: 05786102000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082807 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678426 DATE COLLECTED: 1 / 30 / 1979

SURFACE ELEVATION (FT.): 736.9 LOGGED (FT.): 121.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28366 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.9	PLEISTOCENE		CLAY	36.0	0.0	
700.9			GRAY SHALE	4.2	36.0	
696.7			SANDSTONE	18.6	40.2	
678.1	CARBONDALE		DARK SHALE	0.7	58.8	
677.4	CARBONDALE		SHALE & SANDSTONE	22.5	59.5	
654.9	CARBONDALE		SANDSTONE	5.2	82.0	
649.7	CARBONDALE		MICACEOUS SHALE	13.8	87.2	
635.9	CARBONDALE		DARK SHALE	11.2	101.0	
624.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	112.2	
624.3	CARBONDALE	TURNER MINE	DARK SHALE	1.4	112.6	
622.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	114.0	
621.5	CARBONDALE	SPRINGFIELD	COAL	3.8	115.4	
617.7	CARBONDALE		UNDERCLAY	1.8	119.2	

MAPID: 05786104000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.087354 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680437 DATE COLLECTED: 2 / 2 / 1979

SURFACE ELEVATION (FT.): 731.1 LOGGED (FT.): 116.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28369 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.1	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
703.1	PLEISTOCENE		CLAY	29.0	28.0	GRAY
674.1	CARBONDALE		SHALE & SANDSTONE	35.0	57.0	
639.1	CARBONDALE		DARK SHALE	14.8	92.0	
624.3	CARBONDALE	ST. DAVID	LIMESTONE	0.4	106.8	
623.9	CARBONDALE	TURNER MINE	DARK SHALE	1.3	107.2	
622.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	108.5	
620.8	CARBONDALE	SPRINGFIELD	COAL	3.8	110.3	
617.0	CARBONDALE		UNDERCLAY	1.9	114.1	

MAPID: 05786105000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.087344

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.681805

DATE COLLECTED: 2 / 7 / 1979

SURFACE ELEVATION (FT.): 724.3 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28370

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.3	PLEISTOCENE		CLAY	29.0	0.0	YELLOW
695.3	PLEISTOCENE		CLAY	12.4	29.0	GRAY
682.9	CARBONDALE	HERRIN	COAL	0.4	41.4	SOFT; TOP ERODED
682.5	CARBONDALE		SHALE & SANDSTONE	40.7	41.8	
641.8	CARBONDALE		DARK SHALE	18.2	82.5	
623.6	CARBONDALE	ST. DAVID	LIMESTONE	0.7	100.7	
622.9	CARBONDALE	TURNER MINE	DARK SHALE	1.7	101.4	
621.2	CARBONDALE	TURNER MINE	DARK SHALE	1.6	103.1	
619.6	CARBONDALE	SPRINGFIELD	COAL	3.7	104.7	
615.9	CARBONDALE		UNDERCLAY	1.6	108.4	

MAPID: 05786106000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.0855

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.681527

DATE COLLECTED: 2 / 6 / 1979

SURFACE ELEVATION (FT.): 729.1 LOGGED (FT.): 113.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28371

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.1	PLEISTOCENE		CLAY	32.0	0.0	YELLOW
697.1	PLEISTOCENE		CLAY	28.0	32.0	GRAY
669.1	CARBONDALE		SHALE & SANDSTONE	29.5	60.0	
639.6	CARBONDALE		DARK SHALE	14.4	89.5	
625.2	CARBONDALE	ST. DAVID	LIMESTONE	0.6	103.9	
624.6	CARBONDALE	TURNER MINE	DARK SHALE	1.1	104.5	
623.5	CARBONDALE	TURNER MINE	DARK SHALE	1.7	105.6	
621.8	CARBONDALE	SPRINGFIELD	COAL	3.9	107.3	
617.9	CARBONDALE		UNDERCLAY	1.8	111.2	

MAPID: 05786107000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.085078

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680384

DATE COLLECTED: 2 / 7 / 1979

SURFACE ELEVATION (FT.): 733.4 LOGGED (FT.): 114.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28372

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.4	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
705.4	PLEISTOCENE		CLAY	13.5	28.0	GRAY
691.9	MODESTO		GRAY SHALE	4.6	41.5	
687.3	CARBONDALE	ANNA	DARK SHALE	0.7	46.1	
686.6	CARBONDALE	HERRIN	COAL	3.2	46.8	
683.4	CARBONDALE		UNDERCLAY	1.7	50.0	
681.7	CARBONDALE		SHALE & SANDSTONE	40.3	51.7	
641.4	CARBONDALE		DARK SHALE	13.4	92.0	
628.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	105.4	
627.5	CARBONDALE	TURNER MINE	DARK SHALE	1.2	105.9	
626.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	107.1	
624.8	CARBONDALE	SPRINGFIELD	COAL	3.6	108.6	
621.2	CARBONDALE		UNDERCLAY	1.8	112.2	

MAPID: 05786108000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082882

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675222

DATE COLLECTED: 2 / 7 / 1979

SURFACE ELEVATION (FT.): 738.4 LOGGED (FT.): 122.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28373

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
738.4	PLEISTOCENE		CLAY	30.5	0.0	
707.9	CARBONDALE		SHALE & SANDSTONE	28.7	30.5	
679.2	CARBONDALE		DARK SHALE	0.8	59.2	
678.4	CARBONDALE		SHALE & SANDSTONE	43.0	60.0	
635.4	CARBONDALE		DARK SHALE	10.7	103.0	
624.7	CARBONDALE	ST. DAVID	LIMESTONE	0.6	113.7	
624.1	CARBONDALE	TURNER MINE	DARK SHALE	1.2	114.3	
622.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	115.5	
621.5	CARBONDALE	SPRINGFIELD	COAL	3.7	116.9	
617.8	CARBONDALE		UNDERCLAY	1.4	120.6	

MAPID: 05786109000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082991

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673155

DATE COLLECTED: 2 / 8 / 1979

SURFACE ELEVATION (FT.): 725.3 LOGGED (FT.): 106.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28374

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.3	PLEISTOCENE		CLAY	21.0	0.0	
704.3	MODESTO		GRAY SHALE	17.5	21.0	
686.8	CARBONDALE	ANNA	DARK SHALE	0.7	38.5	
686.1	CARBONDALE	HERRIN	COAL	3.6	39.2	
682.5	CARBONDALE		UNDERCLAY	1.5	42.8	
681.0	CARBONDALE		SHALE & SANDSTONE	42.7	44.3	
638.3	CARBONDALE		DARK SHALE	10.4	87.0	
627.9	CARBONDALE	ST. DAVID	LIMESTONE	0.6	97.4	
627.3	CARBONDALE	TURNER MINE	DARK SHALE	1.3	98.0	
626.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	99.3	
624.8	CARBONDALE	SPRINGFIELD	COAL	3.8	100.5	
621.0	CARBONDALE		UNDERCLAY	1.7	104.3	

MAPID: 05786110000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.085147

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673205

DATE COLLECTED: 2 / 13 / 1979

SURFACE ELEVATION (FT.): 727.7 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28378

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.7	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
699.7	PLEISTOCENE		CLAY	22.0	28.0	GRAY
677.7	CARBONDALE		MICACEOUS SHALE	39.5	50.0	
638.2	CARBONDALE		DARK SHALE	11.2	89.5	
627.0	CARBONDALE	ST. DAVID	LIMESTONE	0.8	100.7	
626.2	CARBONDALE	TURNER MINE	DARK SHALE	1.0	101.5	
625.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	102.5	
623.5	CARBONDALE	SPRINGFIELD	COAL	3.7	104.2	
619.8	CARBONDALE		UNDERCLAY	2.1	107.9	

MAPID: 05786111000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.0807 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672179 DATE COLLECTED: 2 / 15 / 1979

SURFACE ELEVATION (FT.): 722.9 LOGGED (FT.): 103.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28379 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.9	PLEISTOCENE		CLAY	14.0	0.0	
708.9	CARBONDALE		SANDSTONE	7.5	14.0	
701.4	CARBONDALE		GRAY SHALE	11.5	21.5	
689.9	CARBONDALE	BRERETON	LIMESTONE	0.7	33.0	
689.2	CARBONDALE		CLAYSTONE	0.7	33.7	WHITE TOP
688.5	CARBONDALE	ANNA	DARK SHALE	1.0	34.4	
687.5	CARBONDALE	HERRIN	COAL	2.2	35.4	
685.3	CARBONDALE	HERRIN	BLUE BAND	0.2	37.6	
685.1	CARBONDALE	HERRIN	COAL	1.6	37.8	
683.5	CARBONDALE		UNDERCLAY	1.6	39.4	
681.9	CARBONDALE		SHALE & SANDSTONE	43.0	41.0	
638.9	CARBONDALE		DARK SHALE	11.0	84.0	
627.9	CARBONDALE	ST. DAVID	LIMESTONE	0.3	95.0	
627.6	CARBONDALE	TURNER MINE	DARK SHALE	1.5	95.3	
626.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	96.8	
624.9	CARBONDALE	SPRINGFIELD	COAL	3.7	98.0	
621.2	CARBONDALE		UNDERCLAY	1.3	101.7	

MAPID: 05786112000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.080562 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672999 DATE COLLECTED: 2 / 19 / 1979

SURFACE ELEVATION (FT.): 735.4 LOGGED (FT.): 115.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28381 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.4	PLEISTOCENE		CLAY	25.0	0.0	
710.4	CARBONDALE		GRAY SHALE	2.5	25.0	
707.9	CARBONDALE		SANDSTONE	3.0	27.5	
704.9	CARBONDALE		GRAY SHALE	14.0	30.5	
690.9	CARBONDALE	BRERETON	LIMESTONE	2.5	44.5	
688.4	CARBONDALE		CLAYSTONE	0.8	47.0	WHITE TOP
687.6	CARBONDALE	HERRIN	COAL	2.2	47.8	
685.4	CARBONDALE	HERRIN	BLUE BAND	0.2	50.0	
685.2	CARBONDALE	HERRIN	COAL	1.4	50.2	
683.8	CARBONDALE		UNDERCLAY	1.8	51.6	
682.0	CARBONDALE		SHALE & SANDSTONE	36.6	53.4	
645.4	CARBONDALE		DARK SHALE	15.1	90.0	
630.3	CARBONDALE	ST. DAVID	LIMESTONE	0.9	105.1	
629.4	CARBONDALE	TURNER MINE	DARK SHALE	1.4	106.0	
628.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	107.4	
626.4	CARBONDALE	SPRINGFIELD	COAL	3.7	109.0	
622.7	CARBONDALE		UNDERCLAY	2.3	112.7	

MAPID: 05786113000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.075769

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671797

DATE COLLECTED: 2 / 20 / 1979

SURFACE ELEVATION (FT.): 717.5 LOGGED (FT.): 101.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28382

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
717.5	PLEISTOCENE		CLAY	11.0	0.0
706.5	MODESTO		SANDSTONE	4.0	11.0
702.5	MODESTO		GRAY SHALE	19.0	15.0
683.5	CARBONDALE	ANNA	DARK SHALE	0.4	34.0
683.1	CARBONDALE	HERRIN	COAL	2.1	34.4
681.0	CARBONDALE	HERRIN	BLUE BAND	0.2	36.5
680.8	CARBONDALE	HERRIN	COAL	1.7	36.7
679.1	CARBONDALE		UNDERCLAY	1.6	38.4
677.5	CARBONDALE		SHALE & SANDSTONE	42.0	40.0
635.5	CARBONDALE		DARK SHALE	10.0	82.0
625.5	CARBONDALE	ST. DAVID	LIMESTONE	0.5	92.0
625.0	CARBONDALE	TURNER MINE	DARK SHALE	1.4	92.5
623.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	93.9
621.9	CARBONDALE	SPRINGFIELD	COAL	3.7	95.6
618.2	CARBONDALE		UNDERCLAY	1.7	99.3

MAPID: 05786114000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.078464

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672104

DATE COLLECTED: 2 / 21 / 1979

SURFACE ELEVATION (FT.): 729.8 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28383

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.8	PLEISTOCENE		CLAY	18.0	0.0	
711.8	CARBONDALE		GRAY SHALE	3.0	18.0	
708.8	CARBONDALE		SANDSTONE	2.7	21.0	
706.1	CARBONDALE		GRAY SHALE	16.0	23.7	
690.1	CARBONDALE	BRERETON	LIMESTONE	2.5	39.7	
687.6	CARBONDALE		CLAYSTONE	1.3	42.2	WHITE TOP
686.3	CARBONDALE	HERRIN	COAL	2.1	43.5	
684.2	CARBONDALE	HERRIN	BLUE BAND	0.2	45.6	
684.0	CARBONDALE	HERRIN	COAL	1.8	45.8	
682.2	CARBONDALE		UNDERCLAY	1.7	47.6	
680.5	CARBONDALE		MICACEOUS SHALE	14.8	49.3	
665.7	CARBONDALE		SHALE & SANDSTONE	15.9	64.1	
649.8	CARBONDALE		DARK SHALE	23.2	80.0	
626.6	CARBONDALE	ST. DAVID	LIMESTONE	1.0	103.2	
625.6	CARBONDALE	TURNER MINE	SHALE	3.5	104.2	
622.1	CARBONDALE	SPRINGFIELD	COAL	3.7	107.7	
618.4	CARBONDALE		SHALE/UNDERCLAY	3.6	111.4	

MAPID: 05786117000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.07797 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676383 DATE COLLECTED: 2 / 27 / 1979

SURFACE ELEVATION (FT.): 744.3 LOGGED (FT.): 132.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28386 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
744.3	PLEISTOCENE		CLAY	25.8	0.0
718.5	MODESTO		LIMESTONE	1.9	25.8
716.6	MODESTO		GRAY SHALE	6.8	27.7
709.8	MODESTO		SHALE & SANDSTONE	29.0	34.5
680.8	CARBONDALE	ANNA	BLACK SHALE	1.5	63.5
679.3	CARBONDALE	HERRIN	COAL	2.0	65.0
677.3	CARBONDALE	HERRIN	BLUE BAND	0.2	67.0
677.1	CARBONDALE	HERRIN	COAL	2.1	67.2
675.0	CARBONDALE		UNDERCLAY	1.6	69.3
673.4	CARBONDALE		SHALE & SANDSTONE	30.1	70.9
643.3	CARBONDALE		DARK SHALE	22.1	101.0
621.2	CARBONDALE	ST. DAVID	LIMESTONE	0.6	123.1
620.6	CARBONDALE	TURNER MINE	DARK SHALE	1.7	123.7
618.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	125.4
617.5	CARBONDALE	SPRINGFIELD	COAL	3.7	126.8
613.8	CARBONDALE		UNDERCLAY	1.5	130.5

MAPID: 05786118000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.080004

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676514

DATE COLLECTED: 2 / 27 / 1979

SURFACE ELEVATION (FT.): 744.4 LOGGED (FT.): 130.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28387

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.4	PLEISTOCENE		CLAY	28.5	0.0	YELLOW
715.9	PLEISTOCENE		CLAY	4.0	28.5	GRAY
711.9	MODESTO		GRAY SHALE	7.0	32.5	
704.9	MODESTO		SANDSTONE	9.5	39.5	
695.4	MODESTO		GRAY SHALE	15.9	49.0	
679.5	CARBONDALE	HERRIN	COAL	2.0	64.9	
677.5	CARBONDALE		UNDERCLAY	1.7	66.9	
675.8	CARBONDALE		SHALE & SANDSTONE	30.9	68.6	
644.9	CARBONDALE		DARK SHALE	21.5	99.5	
623.4	CARBONDALE	ST. DAVID	LIMESTONE	0.4	121.0	
623.0	CARBONDALE	TURNER MINE	DARK SHALE	0.9	121.4	
622.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	122.3	
620.6	CARBONDALE	SPRINGFIELD	COAL	3.8	123.8	
616.8	CARBONDALE		UNDERCLAY	2.4	127.6	

MAPID: 05786130000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.083407

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6821

DATE COLLECTED: 5 / 3 / 1979

SURFACE ELEVATION (FT.): 731.8 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28400

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.8	PLEISTOCENE		CLAY	20.0	0.0	
711.8	PLEISTOCENE		CLAY & GRAVEL	33.8	20.0	
678.0			SHALE & SANDSTONE	6.2	53.8	

MAPID: 05786131000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.083395

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.682351

DATE COLLECTED: 5 / 5 / 1979

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28401

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.0	PLEISTOCENE		SOIL	20.0	0.0	
712.0	PLEISTOCENE		CLAY & GRAVEL	11.8	20.0	
700.2	MODESTO		GRAY SANDSTONE	11.6	31.8	
688.6	MODESTO		SANDY SHALE	2.6	43.4	
686.0	CARBONDALE	HERRIN	COAL	2.9	46.0	
683.1	CARBONDALE		UNDERCLAY	1.1	48.9	

MAPID: 05786133000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082649

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.681629

DATE COLLECTED: 5 / 7 / 1979

SURFACE ELEVATION (FT.): 733.1 LOGGED (FT.): 51.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28403

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.1	PLEISTOCENE		SOIL	25.0	0.0	
708.1	PLEISTOCENE		SANDY CLAY	3.0	25.0	
705.1	CARBONDALE		GRAY SHALE	3.8	28.0	
701.3	CARBONDALE		SANDSTONE	8.2	31.8	
693.1	CARBONDALE		GRAY SHALE	1.7	40.0	
691.4	CARBONDALE	BRERETON	LIMESTONE	5.3	41.7	
686.1	CARBONDALE		CLAYSTONE	0.5	47.0	WHITE TOP
685.6	CARBONDALE	HERRIN	COAL	2.2	47.5	
683.4	CARBONDALE		UNDERCLAY	1.3	49.7	

MAPID: 05786134000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082748

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678721

DATE COLLECTED: 5 / 7 / 1979

SURFACE ELEVATION (FT.): 737.8 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28404

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.8	PLEISTOCENE		SOIL	1.0	0.0	
736.8	PLEISTOCENE		CLAY	23.0	1.0	
713.8			SANDY SHALE	1.0	24.0	
712.8			SANDSTONE	31.0	25.0	
681.8			GRAY SHALE	4.0	56.0	

MAPID: 05786135000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082747

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67903

DATE COLLECTED: 5 / 7 / 1979

SURFACE ELEVATION (FT.): 736.5 LOGGED (FT.): 57.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28405

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.5	PLEISTOCENE		SOIL	1.0	0.0	
735.5	PLEISTOCENE		CLAY	20.0	1.0	
715.5	SHELBURN		BROWN SHALE	5.0	21.0	SOFT
710.5	SHELBURN		SANDSTONE	15.0	26.0	
695.5	SHELBURN		SANDSTONE/SHALE	12.8	41.0	
682.7	CARBONDALE	HERRIN	COAL	0.2	53.8	
682.5	CARBONDALE		SHALE/UNDERCLAY	3.0	54.0	

MAPID: 05786136000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082731

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.679328

DATE COLLECTED: 5 / 8 / 1979

SURFACE ELEVATION (FT.): 735.8 LOGGED (FT.): 56.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28406

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
735.8	PLEISTOCENE		SOIL	1.0	0.0
734.8	PLEISTOCENE		CLAY	22.0	1.0
712.8	SHELBURN		BROWN SHALE	2.6	23.0
710.2	SHELBURN		SANDSTONE	27.4	25.6
682.8	CARBONDALE		SHALE/UNDERCLAY	3.0	53.0

MAPID: 05786137000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082717

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.679836

DATE COLLECTED: 0 / 0 / 1979

SURFACE ELEVATION (FT.): 735.2 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28409

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
735.2	PLEISTOCENE		SOIL	1.0	0.0
734.2	PLEISTOCENE		SANDY CLAY	17.7	1.0 YELLOW
716.5	PLEISTOCENE		SANDY CLAY	3.7	18.7
712.8	CARBONDALE		SANDY SHALE	3.6	22.4
709.2	CARBONDALE		GRAY SHALE	1.6	26.0
707.6	CARBONDALE		SANDSTONE	19.2	27.6
688.4	CARBONDALE		LIMESTONE	1.7	46.8
686.7	CARBONDALE		GRAY SHALE	2.5	48.5
684.2	CARBONDALE	BRERETON	LIMESTONE	1.0	51.0
683.2	CARBONDALE	HERRIN	SHALE/COAL	0.5	52.0
682.7	CARBONDALE		SHALE/UNDERCLAY	2.5	52.5

MAPID: 05786138000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.082702 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680101 DATE COLLECTED: 5 / 9 / 1979

SURFACE ELEVATION (FT.): 735.2 LOGGED (FT.): 53.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28410 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
735.2	PLEISTOCENE		SOIL	1.0	0.0
734.2	PLEISTOCENE		SANDY CLAY	17.5	1.0
716.7	CARBONDALE		SANDY SHALE	5.1	18.5
711.6	CARBONDALE		GRAY SANDSTONE	0.6	23.6
711.0	CARBONDALE		GRAY SHALE	3.0	24.2
708.0	CARBONDALE		SANDSTONE	19.6	27.2
688.4	CARBONDALE	BRERETON	LIMESTONE	1.5	46.8
686.9	CARBONDALE	HERRIN	COAL	0.7	48.3
686.2	CARBONDALE	HERRIN	BLUE BAND	0.2	49.0
686.0	CARBONDALE	HERRIN	COAL	2.0	49.2
684.0	CARBONDALE		SHALE/UNDERCLAY	1.8	51.2

MAPID: 05786146000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.097152 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684085 DATE COLLECTED: 8 / 9 / 1977

SURFACE ELEVATION (FT.): 732.7 LOGGED (FT.): 105.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27109 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
732.7	PLEISTOCENE		UNCONSOLIDATED	43.0	0.0
689.7	CARBONDALE		UNDERCLAY	1.6	43.0
688.1	CARBONDALE		SHALE & SANDSTONE	38.7	44.6
649.4	CARBONDALE		DARK SHALE	13.7	83.3
635.7	CARBONDALE	ST. DAVID	LIMESTONE	0.5	97.0
635.2	CARBONDALE	TURNER MINE	DARK SHALE	1.5	97.5
633.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	99.0
632.8	CARBONDALE	SPRINGFIELD	COAL	3.6	99.9
629.2	CARBONDALE		UNDERCLAY	1.5	103.5

MAPID: 05786147000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095419

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684066

DATE COLLECTED: 8 / 9 / 1977

SURFACE ELEVATION (FT.): 720.6 LOGGED (FT.): 92.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27110

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.6	PLEISTOCENE		UNCONSOLIDATED	28.5	0.0	
692.1	CARBONDALE		UNDERCLAY	1.7	28.5	
690.4	CARBONDALE		SHALE & SANDSTONE	36.8	30.2	
653.6	CARBONDALE		DARK SHALE	16.5	67.0	
637.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	83.5	
636.7	CARBONDALE	TURNER MINE	DARK SHALE	1.5	83.9	
635.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	85.4	
633.8	CARBONDALE	SPRINGFIELD	COAL	3.9	86.8	
629.9	CARBONDALE		UNDERCLAY	1.3	90.7	

MAPID: 05786148000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095304

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675307

DATE COLLECTED: 8 / 24 / 1977

SURFACE ELEVATION (FT.): 730.2 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27126

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.2	PLEISTOCENE		CLAY	31.7	0.0	YELLOW
698.5	PLEISTOCENE		CLAY	54.8	31.7	GRAY
643.7	CARBONDALE		DARK SHALE	4.0	86.5	
639.7	CARBONDALE	ST. DAVID	LIMESTONE	0.3	90.5	
639.4	CARBONDALE	TURNER MINE	DARK SHALE	1.9	90.8	
637.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	92.7	
636.7	CARBONDALE	SPRINGFIELD	COAL	3.7	93.5	
633.0	CARBONDALE		UNDERCLAY	2.8	97.2	

MAPID: 05786149000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09394 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675573 DATE COLLECTED: 8 / 24 / 1977

SURFACE ELEVATION (FT.): 725.5 LOGGED (FT.): 105.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27127 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.5	PLEISTOCENE		CLAY	33.5	0.0	
692.0	PLEISTOCENE		UNCONSOLIDATED	65.2	33.5	
626.8	CARBONDALE		GRAY SHALE	6.3	98.7	

MAPID: 05786150000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.093913 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67532 DATE COLLECTED: 8 / 24 / 1977

SURFACE ELEVATION (FT.): 727.9 LOGGED (FT.): 105.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27128 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.9	PLEISTOCENE		CLAY	29.0	0.0	
698.9	PLEISTOCENE		UNCONSOLIDATED	70.5	29.0	
628.4	CARBONDALE		GRAY SHALE	5.5	99.5	

MAPID: 05786151000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.093958 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674701 DATE COLLECTED: 8 / 24 / 1977

SURFACE ELEVATION (FT.): 717.3 LOGGED (FT.): 91.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27129 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.3	PLEISTOCENE		CLAY	50.0	0.0	YELLOW
667.3	PLEISTOCENE		CLAY	19.0	50.0	GRAY
648.3	CARBONDALE		DARK SHALE	12.8	69.0	
635.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	81.8	
635.1	CARBONDALE	TURNER MINE	DARK SHALE	1.3	82.2	
633.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.4	83.5	
631.4	CARBONDALE	SPRINGFIELD	COAL	3.3	85.9	
628.1	CARBONDALE		UNDERCLAY	1.8	89.2	

MAPID: 05786152000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.093989

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674988

DATE COLLECTED: 8 / 25 / 1977

SURFACE ELEVATION (FT.): 723.4 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27130

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.4	PLEISTOCENE		CLAY	24.0	0.0	
699.4	PLEISTOCENE		UNCONSOLIDATED	75.0	24.0	
624.4	CARBONDALE		GRAY SHALE	6.0	99.0	

MAPID: 05786153000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.093428

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674961

DATE COLLECTED: 8 / 29 / 1977

SURFACE ELEVATION (FT.): 714.3 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27131

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.3	PLEISTOCENE		CLAY	26.7	0.0	YELLOW
687.6	PLEISTOCENE		CLAY	78.3	26.7	GRAY

MAPID: 05786154000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09567

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673603

DATE COLLECTED: 8 / 29 / 1977

SURFACE ELEVATION (FT.): 726.3 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27132

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.3	PLEISTOCENE		CLAY	26.7	0.0	
699.6	PLEISTOCENE		UNCONSOLIDATED	78.3	26.7	

MAPID: 05786155000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.093445

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675283

DATE COLLECTED: 8 / 29 / 1977

SURFACE ELEVATION (FT.): 722.8 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27133

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.8	PLEISTOCENE		CLAY	28.0	0.0	
694.8	PLEISTOCENE		UNCONSOLIDATED	70.0	28.0	
624.8	CARBONDALE		LIMESTONE	3.2	98.0	
621.6	CARBONDALE		GRAY SHALE	3.8	101.2	

MAPID: 05786156000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092875

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675145

DATE COLLECTED: 8 / 29 / 1977

SURFACE ELEVATION (FT.): 698.4 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27134

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.4	PLEISTOCENE		CLAY	11.0	0.0	YELLOW
687.4	PLEISTOCENE		CLAY	45.5	11.0	GRAY
641.9	CARBONDALE		SILTY SHALE	1.5	56.5	
640.4	CARBONDALE		DARK SHALE	6.6	58.0	
633.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	64.6	
633.4	CARBONDALE	TURNER MINE	DARK SHALE	2.0	65.0	
631.4	CARBONDALE	TURNER MINE	DARK SHALE	0.8	67.0	
630.6	CARBONDALE	SPRINGFIELD	COAL	3.9	67.8	
626.7	CARBONDALE		UNDERCLAY	3.3	71.7	

MAPID: 05786157000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092787

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675427

DATE COLLECTED: 8 / 30 / 1977

SURFACE ELEVATION (FT.): 702.8 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27135

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.8	PLEISTOCENE		CLAY	24.5	0.0	YELLOW
678.3	PLEISTOCENE		CLAY	55.5	24.5	GRAY
622.8	CARBONDALE		UNDERCLAY	3.4	80.0	
619.4	CARBONDALE		LIMESTONE	1.6	83.4	
617.8	CARBONDALE		GRAY SHALE	5.0	85.0	

MAPID: 05786158000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095615

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673957

DATE COLLECTED: 8 / 30 / 1977

SURFACE ELEVATION (FT.): 726.8 LOGGED (FT.): 98.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27136

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.8	PLEISTOCENE		CLAY	25.0	0.0	YELLOW
701.8	PLEISTOCENE		CLAY	51.5	25.0	GRAY
650.3	CARBONDALE		DARK SHALE	12.5	76.5	
637.7	CARBONDALE	ST. DAVID	LIMESTONE	0.7	89.1	
637.1	CARBONDALE	TURNER MINE	DARK SHALE	1.9	89.7	
635.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	91.6	
634.0	CARBONDALE	SPRINGFIELD	COAL	3.8	92.8	
630.2	CARBONDALE		UNDERCLAY	1.4	96.6	

MAPID: 05786159000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09527

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673856

DATE COLLECTED: 8 / 31 / 1977

SURFACE ELEVATION (FT.): 723.6 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27137

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.6	PLEISTOCENE		CLAY	20.0	0.0	
703.6	PLEISTOCENE		UNCONSOLIDATED	85.0	20.0	

MAPID: 0578616000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09552

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67428

DATE COLLECTED: 8 / 31 / 1977

SURFACE ELEVATION (FT.): 724.2 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27138

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.2	PLEISTOCENE		CLAY	21.0	0.0	
703.2	PLEISTOCENE		UNCONSOLIDATED	74.0	21.0	
629.2			SHALE & SANDSTONE	10.0	95.0	

MAPID: 05786161000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095326

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674488

DATE COLLECTED: 8 / 31 / 1977

SURFACE ELEVATION (FT.): 727.7 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27139

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.7	PLEISTOCENE		CLAY	25.0	0.0	YELLOW
702.7	PLEISTOCENE		CLAY	48.0	25.0	GRAY
654.7	CARBONDALE		MICACEOUS SHALE	4.0	73.0	
650.7	CARBONDALE		DARK SHALE	13.3	77.0	
637.4	CARBONDALE	ST. DAVID	LIMESTONE	0.5	90.3	
636.9	CARBONDALE	TURNER MINE	DARK SHALE	1.8	90.8	
635.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	92.6	
633.9	CARBONDALE	SPRINGFIELD	COAL	3.8	93.8	
630.1	CARBONDALE		UNDERCLAY	2.4	97.6	

MAPID: 05786162000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094909

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674407

DATE COLLECTED: 8 / 31 / 1977

SURFACE ELEVATION (FT.): 721.7 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27140

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.7	PLEISTOCENE		CLAY	14.0	0.0	
707.7	PLEISTOCENE		UNCONSOLIDATED	83.0	14.0	
624.7			GRAY SHALE	8.0	97.0	

MAPID: 05786163000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094602 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669558 DATE COLLECTED: 9 / 6 / 1977

SURFACE ELEVATION (FT.): 735.6 LOGGED (FT.): 109.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27141 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.6	PLEISTOCENE		CLAY	24.5	0.0	YELLOW
711.1	PLEISTOCENE		CLAY	38.5	24.5	GRAY
672.6	CARBONDALE		MICACEOUS SHALE	27.0	63.0	
645.6	CARBONDALE		DARK SHALE	10.1	90.0	
635.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	100.1	
635.1	CARBONDALE	TURNER MINE	DARK SHALE	1.5	100.5	
633.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	102.0	
632.4	CARBONDALE	SPRINGFIELD	COAL	3.7	103.2	
628.7	CARBONDALE		UNDERCLAY	2.1	106.9	

MAPID: 05786164000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092957 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669542 DATE COLLECTED: 9 / 6 / 1977

SURFACE ELEVATION (FT.): 736.9 LOGGED (FT.): 111.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27142 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.9	PLEISTOCENE		CLAY	35.0	0.0	
701.9	CARBONDALE		SHALE & SANDSTONE	59.2	35.0	
642.7	CARBONDALE		DARK SHALE	8.4	94.2	
634.3	CARBONDALE	ST. DAVID	LIMESTONE	0.3	102.6	
634.0	CARBONDALE	TURNER MINE	DARK SHALE	1.8	102.9	
632.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	104.7	
631.1	CARBONDALE	SPRINGFIELD	COAL	3.8	105.8	
627.3	CARBONDALE		UNDERCLAY	1.4	109.6	

MAPID: 05786165000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094214

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670286

DATE COLLECTED: 9 / 6 / 1977

SURFACE ELEVATION (FT.): 734.9 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27143

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.9	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
706.9	PLEISTOCENE		CLAY	23.5	28.0	GRAY
683.4	CARBONDALE		SHALE & SANDSTONE	38.3	51.5	
645.1	CARBONDALE		DARK SHALE	10.7	89.8	
634.4	CARBONDALE	ST. DAVID	LIMESTONE	0.4	100.5	
634.0	CARBONDALE	TURNER MINE	DARK SHALE	1.6	100.9	
632.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	102.5	
631.2	CARBONDALE	SPRINGFIELD	COAL	3.8	103.7	
627.4	CARBONDALE		UNDERCLAY	2.5	107.5	

MAPID: 05786166000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095375

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670048

DATE COLLECTED:

SURFACE ELEVATION (FT.): 735.1 LOGGED (FT.): 109.0

LOG TYPE:

SOURCE: MIDLAND COAL CO. FARMEAST 27144

WELL TYPE:

COMMENT: LOCATIONS DIG. FROM CO. M,AP

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.1	PLEISTOCENE		CLAY	29.0	0.0	YELLOW
706.1	PLEISTOCENE		CLAY	71.6	29.0	GRAY
634.5	CARBONDALE	TURNER MINE	DARK SHALE	0.9	100.6	
633.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	101.5	
632.6	CARBONDALE	SPRINGFIELD	COAL	3.8	102.5	
628.8	CARBONDALE		UNDERCLAY	2.7	106.3	

MAPID: 05786167000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094928

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670787

DATE COLLECTED: 9 / 7 / 1977

SURFACE ELEVATION (FT.): 734.0 LOGGED (FT.): 107.0

LOG TYPE:

SOURCE: MIDLAND COAL CO. FARMEAST 27145

WELL TYPE:

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
734.0	PLEISTOCENE		CLAY	25.0	0.0
709.0	PLEISTOCENE		CLAY & GRAVEL	41.0	25.0
668.0	CARBONDALE		MICACEOUS SHALE	22.5	66.0
645.5	CARBONDALE		DARK SHALE	9.5	88.5
636.0	CARBONDALE	ST. DAVID	LIMESTONE	0.6	98.0
635.4	CARBONDALE	TURNER MINE	DARK SHALE	1.6	98.6
633.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	100.2
632.5	CARBONDALE	SPRINGFIELD	COAL	3.7	101.5
628.8	CARBONDALE		UNDERCLAY	1.8	105.2

MAPID: 05786168000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094093

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671462

DATE COLLECTED: 9 / 7 / 1977

SURFACE ELEVATION (FT.): 732.2 LOGGED (FT.): 105.0

LOG TYPE:

SOURCE: MIDLAND COAL CO. FARMEAST 27146

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
732.2	PLEISTOCENE		CLAY	24.0	0.0
708.2	PLEISTOCENE		UNCONSOLIDATED	19.0	24.0
689.2	CARBONDALE		SHALE & SANDSTONE	43.4	43.0
645.8	CARBONDALE		DARK SHALE	10.1	86.4
635.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	96.5
635.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	96.9
633.7	CARBONDALE	TURNER MINE	DARK SHALE	0.9	98.5
632.8	CARBONDALE	SPRINGFIELD	COAL	3.7	99.4
629.1	CARBONDALE		UNDERCLAY	1.9	103.1

MAPID: 05786169000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092906

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671578

DATE COLLECTED: 9 / 8 / 1977

SURFACE ELEVATION (FT.): 734.3 LOGGED (FT.): 108.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27147

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.3	PLEISTOCENE		CLAY	30.0	0.0	
704.3	CARBONDALE		GRAY SHALE	9.5	30.0	
694.8	CARBONDALE	BRERETON	LIMESTONE	1.0	39.5	
693.8	CARBONDALE		CLAYSTONE	0.3	40.5	WHITE TOP
693.5	CARBONDALE	HERRIN	COAL	4.1	40.8	
689.4	CARBONDALE		UNDERCLAY	1.6	44.9	
687.8	CARBONDALE		MICACEOUS SHALE	42.0	46.5	
645.8	CARBONDALE		DARK SHALE	11.2	88.5	
634.6	CARBONDALE	ST. DAVID	LIMESTONE	0.7	99.7	
633.9	CARBONDALE	TURNER MINE	DARK SHALE	1.2	100.4	
632.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	101.6	
631.5	CARBONDALE	SPRINGFIELD	COAL	3.8	102.8	
627.7	CARBONDALE		UNDERCLAY	1.4	106.6	

MAPID: 05786170000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092408

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675255

DATE COLLECTED: 9 / 8 / 1977

SURFACE ELEVATION (FT.): 702.3 LOGGED (FT.): 81.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27148

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.3	PLEISTOCENE		CLAY	25.0	0.0	
677.3	PLEISTOCENE		CLAY	42.0	25.0	
635.3	CARBONDALE		DARK SHALE	5.8	67.0	
629.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	72.8	
629.1	CARBONDALE	TURNER MINE	DARK SHALE	1.3	73.2	
627.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	74.5	
626.6	CARBONDALE	SPRINGFIELD	COAL	3.7	75.7	
622.9	CARBONDALE		UNDERCLAY	1.6	79.4	

MAPID: 05786171000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094878

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674647

DATE COLLECTED: 9 / 9 / 1977

SURFACE ELEVATION (FT.): 726.0 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27149

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
726.0	PLEISTOCENE		CLAY	22.0	0.0
704.0	PLEISTOCENE		UNCONSOLIDATED	78.5	22.0
625.5			GRAY SHALE	4.5	100.5

MAPID: 05786172000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094978

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674851

DATE COLLECTED: 9 / 9 / 1977

SURFACE ELEVATION (FT.): 728.5 LOGGED (FT.): 99.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27150

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
728.5	PLEISTOCENE		CLAY	28.0	0.0
700.5	PLEISTOCENE		CLAY & GRAVEL	54.5	28.0
646.0	CARBONDALE		DARK SHALE	8.0	82.5
638.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	90.5
637.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	91.0
636.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	92.5
634.4	CARBONDALE	SPRINGFIELD	COAL	3.6	94.1
630.8	CARBONDALE		UNDERCLAY	1.3	97.7

MAPID: 05786173000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094579

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674867

DATE COLLECTED: 9 / 9 / 1977

SURFACE ELEVATION (FT.): 724.3 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27151

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
724.3	PLEISTOCENE		CLAY	25.0	0.0
699.3	PLEISTOCENE		UNCONSOLIDATED	80.0	25.0

MAPID: 05786174000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094733

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675053

DATE COLLECTED: 9 / 16 / 1977

SURFACE ELEVATION (FT.): 727.0 LOGGED (FT.): 98.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27152

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
727.0	PLEISTOCENE		CLAY	24.0	0.0
703.0	PLEISTOCENE		UNCONSOLIDATED	61.0	24.0
642.0	CARBONDALE		DARK SHALE	3.0	85.0
639.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	88.0
638.6	CARBONDALE	TURNER MINE	DARK SHALE	2.4	88.4
636.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	90.8
634.4	CARBONDALE	SPRINGFIELD	COAL	3.7	92.6
630.7	CARBONDALE		UNDERCLAY	1.7	96.3

MAPID: 05786175000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094366

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674989

DATE COLLECTED: 9 / 16 / 1977

SURFACE ELEVATION (FT.): 723.9 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27153

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
723.9	PLEISTOCENE		CLAY	22.0	0.0
701.9	PLEISTOCENE		UNCONSOLIDATED	78.0	22.0
623.9			GRAY SHALE	5.0	100.0

MAPID: 05786176000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094329

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67526

DATE COLLECTED: 9 / 16 / 1977

SURFACE ELEVATION (FT.): 728.0 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27154

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
728.0	PLEISTOCENE		CLAY	25.0	0.0
703.0	PLEISTOCENE		CLAY & GRAVEL	65.0	25.0
638.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	90.0
637.5	CARBONDALE	TURNER MINE	DARK SHALE	1.6	90.5
635.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	92.1
634.5	CARBONDALE	SPRINGFIELD	COAL	3.8	93.5
630.7	CARBONDALE		UNDERCLAY	2.7	97.3

MAPID: 05786177000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094082

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675233

DATE COLLECTED: 9 / 16 / 1977

SURFACE ELEVATION (FT.): 727.9 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27155

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
727.9	PLEISTOCENE		CLAY	22.5	0.0
705.4	PLEISTOCENE		CLAY & GRAVEL	81.0	22.5
624.4	CARBONDALE		GRAY SHALE	1.5	103.5

MAPID: 05786178000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.0942 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675478 DATE COLLECTED: 9 / 19 / 1977

SURFACE ELEVATION (FT.): 727.6 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27156 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.6	PLEISTOCENE		CLAY	23.0	0.0	
704.6	PLEISTOCENE		CLAY	67.0	23.0	
637.6	CARBONDALE	ST. DAVID	LIMESTONE	0.4	90.0	
637.2	CARBONDALE	TURNER MINE	DARK SHALE	1.9	90.4	
635.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	92.3	
633.9	CARBONDALE	SPRINGFIELD	COAL	3.4	93.7	
630.5	CARBONDALE		UNDERCLAY	2.9	97.1	

MAPID: 05786179000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.093121 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677688 DATE COLLECTED: 8 / 4 / 1977

SURFACE ELEVATION (FT.): 722.9 LOGGED (FT.): 93.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27200 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.9	PLEISTOCENE		SANDY CLAY	29.2	0.0	YELLOW
693.7	PLEISTOCENE		SANDY CLAY	16.8	29.2	GRAY
676.9	PLEISTOCENE		BOULDER	1.4	46.0	
675.5	PLEISTOCENE		SANDY CLAY	15.6	47.4	
659.9	CARBONDALE		SANDSTONE	2.0	63.0	
657.9	CARBONDALE		GRAY SHALE	6.5	65.0	
651.4	CARBONDALE		LIMESTONE	0.8	71.5	
650.6	CARBONDALE		DARK SHALE	12.1	72.3	
638.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	84.4	
638.1	CARBONDALE	TURNER MINE	DARK SHALE	1.2	84.8	
636.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	86.0	
635.7	CARBONDALE	SPRINGFIELD	COAL	3.6	87.2	
632.1	CARBONDALE		SHALE/UNDERCLAY	2.2	90.8	

MAPID: 0578618000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092322

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677833

DATE COLLECTED: 8 / 5 / 1977

SURFACE ELEVATION (FT.): 714.6 LOGGED (FT.): 87.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27201

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
714.6	PLEISTOCENE		CLAY	36.0	0.0
678.6	PLEISTOCENE		CLAY & GRAVEL	42.2	36.0
636.4	PLEISTOCENE		BOULDER	1.8	78.2
634.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	80.0
633.4	CARBONDALE	SPRINGFIELD	COAL	3.6	81.2
629.8	CARBONDALE		UNDERCLAY	2.2	84.8

MAPID: 05786181000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.093684

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67696

DATE COLLECTED: 8 / 5 / 1977

SURFACE ELEVATION (FT.): 729.2 LOGGED (FT.): 96.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27202

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
729.2	PLEISTOCENE		SAND/CLAY	58.2	0.0
671.0	CARBONDALE		GRAY SHALE	16.7	58.2
654.3	CARBONDALE		DARK SHALE	11.6	74.9
642.7	CARBONDALE	ST. DAVID	LIMESTONE	0.5	86.5
642.2	CARBONDALE	TURNER MINE	DARK SHALE	1.6	87.0
640.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	88.6
639.5	CARBONDALE	SPRINGFIELD	COAL	3.7	89.7
635.8	CARBONDALE		SHALE/UNDERCLAY	2.6	93.4

MAPID: 05786182000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095378

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677202

DATE COLLECTED: 8 / 5 / 1977

SURFACE ELEVATION (FT.): 730.2 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27203

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
730.2	PLEISTOCENE		SANDY CLAY	30.0	0.0
700.2	PLEISTOCENE		CLAY & GRAVEL	12.9	30.0
687.3	CARBONDALE		GRAY SHALE	3.1	42.9
684.2	CARBONDALE		SANDSTONE	12.0	46.0
672.2	CARBONDALE		GRAY SHALE	7.0	58.0
665.2	CARBONDALE		DARK SHALE	25.0	65.0
640.2	CARBONDALE	ST. DAVID	LIMESTONE	0.3	90.0
639.9	CARBONDALE	TURNER MINE	SHALE	3.7	90.3
636.2	CARBONDALE	SPRINGFIELD	COAL	3.6	94.0
632.6	CARBONDALE		SHALE/UNDERCLAY	2.4	97.6

MAPID: 05786183000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096734

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676842

DATE COLLECTED: 8 / 10 / 1977

SURFACE ELEVATION (FT.): 728.5 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27205

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
728.5	PLEISTOCENE		SOIL	21.6	0.0
706.9	PLEISTOCENE		SANDY CLAY	16.4	21.6
690.5	PLEISTOCENE		BOULDER	1.8	38.0
688.7	PLEISTOCENE		CLAY & GRAVEL	25.0	39.8
663.7	PLEISTOCENE		SANDY CLAY	7.2	64.8
656.5	CARBONDALE		LIMESTONE	0.4	72.0
656.1	CARBONDALE		DARK SHALE	15.6	72.4
640.5	CARBONDALE	ST. DAVID	LIMESTONE	0.5	88.0
640.0	CARBONDALE	TURNER MINE	DARK SHALE	1.8	88.5
638.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	90.3
636.8	CARBONDALE	SPRINGFIELD	COAL	3.7	91.7
633.1	CARBONDALE		SHALE/UNDERCLAY	4.6	95.4

MAPID: 05786184000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096798 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675018 DATE COLLECTED: 8 / 10 / 1977

SURFACE ELEVATION (FT.): 729.5 LOGGED (FT.): 101.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27206 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.5	PLEISTOCENE		SOIL	30.2	0.0	
699.3	PLEISTOCENE		CLAY, SAND & GRAVEL	44.8	30.2	
654.5	PLEISTOCENE		CLAY & GRAVEL	2.0	75.0	
652.5	CARBONDALE		GRAY SHALE	4.4	77.0	SOFT
648.1	CARBONDALE		LIMESTONE	0.3	81.4	
647.8	CARBONDALE		DARK SHALE	10.9	81.7	
636.9	CARBONDALE	ST. DAVID	LIMESTONE	0.6	92.6	
636.3	CARBONDALE	TURNER MINE	DARK SHALE	1.7	93.2	
634.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	94.9	
633.3	CARBONDALE	SPRINGFIELD	COAL	3.2	96.2	
630.1	CARBONDALE		UNDERCLAY	1.6	99.4	

MAPID: 05786185000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094215 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672551 DATE COLLECTED: 8 / 12 / 1977

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 110.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27208 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.0	PLEISTOCENE		SANDY CLAY	19.1	0.0	
710.9	PLEISTOCENE		CLAY & GRAVEL	80.9	19.1	
630.0	PLEISTOCENE		CLAY, SAND & GRAVEL	10.0	100.0	

MAPID: 05786186000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.091343

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673128

DATE COLLECTED: 8 / 12 / 1977

SURFACE ELEVATION (FT.): 732.2 LOGGED (FT.): 106.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27209

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.2	PLEISTOCENE		SANDY CLAY	17.7	0.0	
714.5	PLEISTOCENE		BOULDER	3.1	17.7	
711.4	PLEISTOCENE		CLAY & GRAVEL	4.6	20.8	YELLOW
706.8	PLEISTOCENE		CLAY & GRAVEL	37.8	25.4	GRAY
669.0	PLEISTOCENE		BOULDER	0.8	63.2	
668.2	PLEISTOCENE		CLAY & GRAVEL	37.0	64.0	
631.2	CARBONDALE	SPRINGFIELD	COAL	0.8	101.0	SOFT, POOR FLOAT; TOP ERODED
630.4	CARBONDALE	SPRINGFIELD	COAL	2.4	101.8	SOFT
628.0	CARBONDALE		UNDERCLAY	1.8	104.2	

MAPID: 05786187000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096808

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674083

DATE COLLECTED: 8 / 15 / 1977

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 108.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27210

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.0	PLEISTOCENE		SOIL	25.8	0.0	
706.2	PLEISTOCENE		CLAY & GRAVEL	12.2	25.8	
694.0	CARBONDALE	HERRIN	COAL	2.0	38.0	VERY SOFT; TOP ERODED
692.0	CARBONDALE	HERRIN	BLUE BAND	0.2	40.0	
691.8	CARBONDALE	HERRIN	COAL	1.3	40.2	SOFT
690.5	CARBONDALE		UNDERCLAY	2.5	41.5	
688.0	CARBONDALE		GRAY SHALE	12.7	44.0	
675.3	CARBONDALE		SANDSTONE	13.3	56.7	
662.0	CARBONDALE		DARK SHALE	16.8	70.0	
645.2	CARBONDALE		LIMESTONE	0.6	86.8	
644.6	CARBONDALE		DARK SHALE	10.1	87.4	
634.5	CARBONDALE	ST. DAVID	LIMESTONE	0.7	97.5	
633.8	CARBONDALE	TURNER MINE	SHALE	3.2	98.2	
630.6	CARBONDALE	SPRINGFIELD	COAL	3.8	101.4	
626.8	CARBONDALE		UNDERCLAY	2.8	105.2	

MAPID: 05786188000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096831

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669627

DATE COLLECTED: 8 / 15 / 1977

SURFACE ELEVATION (FT.): 736.1 LOGGED (FT.): 107.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27211

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
736.1	PLEISTOCENE		SOIL	17.5	0.0
718.6	PLEISTOCENE		CLAY & GRAVEL	52.5	17.5
666.1	PLEISTOCENE		CLAY, SAND & GRAVEL	6.5	70.0
659.6	CARBONDALE		LIMESTONE	0.5	76.5
659.1	CARBONDALE		GRAY SHALE	7.7	77.0
651.4	CARBONDALE		LIMESTONE	0.3	84.7
651.1	CARBONDALE		DARK SHALE	3.6	85.0
647.5	CARBONDALE		LIMESTONE	0.3	88.6
647.2	CARBONDALE		DARK SHALE	9.5	88.9
637.7	CARBONDALE	TURNER MINE	SHALE	2.4	98.4
635.3	CARBONDALE	SPRINGFIELD	COAL	3.8	100.8
631.5	CARBONDALE		SHALE/UNDERCLAY	2.4	104.6

MAPID: 05786189000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096835

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671379

DATE COLLECTED: 8 / 16 / 1977

SURFACE ELEVATION (FT.): 734.3 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27213

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
734.3	PLEISTOCENE		SOIL	1.0	0.0
733.3	PLEISTOCENE		SANDY CLAY	24.6	1.0
708.7	PLEISTOCENE		CLAY & GRAVEL	19.4	25.6
689.3	PLEISTOCENE		CLAY, SAND & GRAVEL	31.4	45.0
657.9	PLEISTOCENE		SANDY CLAY	43.6	76.4

MAPID: 05786190000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096839

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670554

DATE COLLECTED: 8 / 17 / 1977

SURFACE ELEVATION (FT.): 735.5 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27214

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
735.5	PLEISTOCENE		SOIL	1.0	0.0
734.5	PLEISTOCENE		SANDY CLAY	26.0	1.0
708.5	PLEISTOCENE		CLAY & GRAVEL	29.5	27.0
679.0	PLEISTOCENE		CLAY, SAND & GRAVEL	33.5	56.5
645.5	PLEISTOCENE		CLAY & GRAVEL	25.4	90.0
620.1	CARBONDALE		GRAY SHALE	4.6	115.4

MAPID: 05786191000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09685

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670132

DATE COLLECTED: 8 / 17 / 1977

SURFACE ELEVATION (FT.): 736.1 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27215

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
736.1	PLEISTOCENE		SOIL	1.0	0.0
735.1	PLEISTOCENE		SANDY CLAY	26.2	1.0
708.9	PLEISTOCENE		CLAY & GRAVEL	20.2	27.2
688.7	PLEISTOCENE		BOULDER	0.5	47.4
688.2	PLEISTOCENE		CLAY & GRAVEL	63.9	47.9
624.3	PLEISTOCENE		BOULDER	1.2	111.8
623.1	PLEISTOCENE		CLAY & GRAVEL	6.0	113.0
617.1			SANDSTONE	1.0	119.0

MAPID: 05786192000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096359 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669903 DATE COLLECTED: 8 / 17 / 1977

SURFACE ELEVATION (FT.): 736.8 LOGGED (FT.): 110.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27216 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
736.8	PLEISTOCENE		SOIL	28.0	0.0
708.8	PLEISTOCENE		BOULDER	1.0	28.0
707.8	PLEISTOCENE		CLAY & GRAVEL	43.5	29.0
664.3	CARBONDALE		DARK SHALE	13.5	72.5
650.8	CARBONDALE		LIMESTONE	0.3	86.0
650.5	CARBONDALE		DARK SHALE	14.0	86.3
636.5	CARBONDALE	ST. DAVID	LIMESTONE	0.7	100.3
635.8	CARBONDALE	TURNER MINE	DARK SHALE	1.2	101.0
634.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	102.2
633.3	CARBONDALE	SPRINGFIELD	COAL	3.5	103.5
629.8	CARBONDALE		SHALE/UNDERCLAY	3.0	107.0

MAPID: 05786193000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096307 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670171 DATE COLLECTED: 8 / 18 / 1977

SURFACE ELEVATION (FT.): 735.9 LOGGED (FT.): 107.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27217 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
735.9	PLEISTOCENE		SOIL	27.5	0.0
708.4	PLEISTOCENE		SANDY CLAY	5.9	27.5
702.5	PLEISTOCENE		BOULDER	1.4	33.4
701.1	PLEISTOCENE		CLAY & GRAVEL	10.2	34.8
690.9	PLEISTOCENE		CLAY, SAND & GRAVEL	52.2	45.0
638.7	CARBONDALE		DARK SHALE	0.8	97.2
637.9	CARBONDALE	ST. DAVID	LIMESTONE	0.6	98.0
637.3	CARBONDALE	TURNER MINE	DARK SHALE	1.4	98.6
635.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	100.0
634.3	CARBONDALE	SPRINGFIELD	COAL	3.7	101.6
630.6	CARBONDALE		UNDERCLAY	1.7	105.3

MAPID: 05786194000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096599

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670384

DATE COLLECTED: 8 / 18 / 1977

SURFACE ELEVATION (FT.): 735.6 LOGGED (FT.): 112.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27218

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.6	PLEISTOCENE		SOIL	1.0	0.0	
734.6	PLEISTOCENE		SANDY CLAY	25.8	1.0	YELLOW
708.8	PLEISTOCENE		SANDY CLAY	13.2	26.8	
695.6	PLEISTOCENE		CLAY & GRAVEL	5.9	40.0	
689.7	PLEISTOCENE		BOULDER	0.8	45.9	
688.9	PLEISTOCENE		CLAY & GRAVEL	65.3	46.7	

MAPID: 05786195000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096201

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670522

DATE COLLECTED: 8 / 18 / 1977

SURFACE ELEVATION (FT.): 734.5 LOGGED (FT.): 112.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27219

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.5	PLEISTOCENE		SOIL	1.0	0.0	
733.5	PLEISTOCENE		SANDY CLAY	25.4	1.0	
708.1	PLEISTOCENE		CLAY & GRAVEL	23.2	26.4	
684.9	PLEISTOCENE		BOULDER	4.0	49.6	
680.9	PLEISTOCENE		CLAY & GRAVEL	20.4	53.6	
660.5	PLEISTOCENE		CLAY, SAND & GRAVEL	36.0	74.0	
624.5	CARBONDALE		GRAY SANDSTONE	2.0	110.0	

MAPID: 05786196000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09591 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670302 DATE COLLECTED:

SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27220 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.0	PLEISTOCENE		SOIL	1.0	0.0	
734.0	PLEISTOCENE		SANDY CLAY	27.4	1.0	
706.6	PLEISTOCENE		CLAY & GRAVEL	76.6	28.4	
630.0	CARBONDALE	SPRINGFIELD	COAL	0.4	105.0	VERY SOFT; TOP ERODED
629.6	CARBONDALE		UNDERCLAY	1.0	105.4	
628.6	CARBONDALE		GRAY SANDSTONE	1.6	106.4	

MAPID: 05786197000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095969 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670065 DATE COLLECTED: 8 / 19 / 1977

SURFACE ELEVATION (FT.): 736.3 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27221 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.3	PLEISTOCENE		SOIL	1.0	0.0	
735.3	PLEISTOCENE		CLAY & GRAVEL	26.5	1.0	
708.8	PLEISTOCENE		CLAY & GRAVEL	57.7	27.5	
651.1	CARBONDALE		GRAY SANDSTONE	4.8	85.2	
646.3	CARBONDALE		DARK SHALE	9.2	90.0	
637.1	CARBONDALE	ST. DAVID	LIMESTONE	0.9	99.2	
636.2	CARBONDALE	TURNER MINE	DARK SHALE	1.3	100.1	
634.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	101.4	
633.3	CARBONDALE	SPRINGFIELD	COAL	3.5	103.0	
629.8	CARBONDALE		UNDERCLAY	1.5	106.5	

MAPID: 05786198000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095528

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670175

DATE COLLECTED: 8 / 22 / 1977

SURFACE ELEVATION (FT.): 734.8 LOGGED (FT.): 107.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27222

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.8	PLEISTOCENE		SOIL	1.0	0.0	
733.8	PLEISTOCENE		SANDY CLAY	23.8	1.0	
710.0	PLEISTOCENE		CLAY & GRAVEL	78.2	24.8	
631.8	CARBONDALE	SPRINGFIELD	COAL	1.8	103.0	SOFT; TOP ERODED
630.0	CARBONDALE		SHALE/UNDERCLAY	2.2	104.8	

MAPID: 05786199000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095556

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670442

DATE COLLECTED: 8 / 23 / 1977

SURFACE ELEVATION (FT.): 734.3 LOGGED (FT.): 104.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27223

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.3	PLEISTOCENE		SOIL	1.0	0.0	
733.3	PLEISTOCENE		SANDY CLAY	24.6	1.0	
708.7	PLEISTOCENE		CLAY & GRAVEL	40.4	25.6	
668.3	PLEISTOCENE		CLAY, SAND & GRAVEL	24.0	66.0	
644.3	CARBONDALE		DARK SHALE	5.4	90.0	
638.9	CARBONDALE	ST. DAVID	LIMESTONE	0.5	95.4	
638.4	CARBONDALE	TURNER MINE	DARK SHALE	1.5	95.9	
636.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	97.4	
635.7	CARBONDALE	SPRINGFIELD	COAL	3.7	98.6	
632.0	CARBONDALE		UNDERCLAY	1.7	102.3	

MAPID: 05786200000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096244

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670875

DATE COLLECTED: 8 / 23 / 1977

SURFACE ELEVATION (FT.): 734.4 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27225

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.4	PLEISTOCENE		SOIL	1.0	0.0	
733.4	PLEISTOCENE		SANDY CLAY	26.5	1.0	
706.9	PLEISTOCENE		CLAY & GRAVEL	12.5	27.5	
694.4	PLEISTOCENE		CLAY, SAND & GRAVEL	30.0	40.0	
664.4	PLEISTOCENE		CLAY & GRAVEL	37.7	70.0	
626.7	CARBONDALE		GRAY SHALE	2.3	107.7	

MAPID: 05786201000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095826

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671075

DATE COLLECTED: 8 / 24 / 1977

SURFACE ELEVATION (FT.): 734.1 LOGGED (FT.): 106.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27226

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.1	PLEISTOCENE		SOIL	26.0	0.0	
708.1	PLEISTOCENE		CLAY & GRAVEL	12.6	26.0	
695.5	PLEISTOCENE		BOULDER	0.9	38.6	
694.6	PLEISTOCENE		CLAY & GRAVEL	43.8	39.5	
650.8	CARBONDALE		GRAY SHALE	8.1	83.3	SOFT
642.7	CARBONDALE		DARK SHALE	5.6	91.4	
637.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	97.0	
636.7	CARBONDALE	TURNER MINE	DARK SHALE	1.0	97.4	
635.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	98.4	
634.3	CARBONDALE	SPRINGFIELD	COAL	3.8	99.8	
630.5	CARBONDALE		UNDERCLAY	2.4	103.6	

MAPID: 05786202000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096255

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671261

DATE COLLECTED: 8 / 24 / 1977

SURFACE ELEVATION (FT.): 734.0 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27227

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.0	PLEISTOCENE		SOIL	27.5	0.0	
706.5	PLEISTOCENE		CLAY & GRAVEL	36.5	27.5	
670.0	PLEISTOCENE		CLAY, SAND & GRAVEL	26.0	64.0	
644.0	PLEISTOCENE		CLAY & GRAVEL	20.0	90.0	

MAPID: 05786203000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095807

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671448

DATE COLLECTED: 8 / 25 / 1977

SURFACE ELEVATION (FT.): 733.2 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27228

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.2	PLEISTOCENE		SOIL	1.0	0.0	
732.2	PLEISTOCENE		CLAY & GRAVEL	24.8	1.0	
707.4	PLEISTOCENE		SAND & GRAVEL	31.7	25.8	
675.7	PLEISTOCENE		CLAY & GRAVEL	39.0	57.5	
636.7	CARBONDALE	ST. DAVID	LIMESTONE	0.7	96.5	
636.0	CARBONDALE	TURNER MINE	DARK SHALE	1.8	97.2	
634.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	99.0	
633.2	CARBONDALE	SPRINGFIELD	COAL	3.5	100.0	
629.7	CARBONDALE		UNDERCLAY	1.5	103.5	

MAPID: 05786204000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096095

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671631

DATE COLLECTED: 8 / 25 / 1977

SURFACE ELEVATION (FT.): 733.2 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27229

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
733.2	PLEISTOCENE		SOIL	1.0	0.0
732.2	PLEISTOCENE		CLAY & GRAVEL	25.8	1.0
706.4	PLEISTOCENE		SANDY CLAY	21.6	26.8
684.8	PLEISTOCENE		BOULDER	2.1	48.4
682.7	PLEISTOCENE		CLAY & GRAVEL	59.5	50.5

MAPID: 05786205000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095766

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671779

DATE COLLECTED: 8 / 26 / 1977

SURFACE ELEVATION (FT.): 732.6 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27230

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
732.6	PLEISTOCENE		SOIL	1.0	0.0
731.6	PLEISTOCENE		SANDY CLAY	24.5	1.0
707.1	PLEISTOCENE		CLAY & GRAVEL	94.5	25.5

MAPID: 05786206000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095446

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671607

DATE COLLECTED: 8 / 26 / 1977

SURFACE ELEVATION (FT.): 733.2 LOGGED (FT.): 106.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27231

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.2	PLEISTOCENE		SOIL	1.0	0.0	
732.2	PLEISTOCENE		CLAY & GRAVEL	25.5	1.0	
706.7	PLEISTOCENE		CLAY & GRAVEL	59.8	26.5	GRAY
646.9	CARBONDALE		DARK SHALE	9.2	86.3	SOFT
637.7	CARBONDALE	ST. DAVID	LIMESTONE	1.7	95.5	
636.0	CARBONDALE	TURNER MINE	DARK SHALE	1.8	97.2	
634.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	99.0	
633.2	CARBONDALE	SPRINGFIELD	COAL	3.5	100.0	DIRTY
629.7	CARBONDALE		SHALE/UNDERCLAY	2.5	103.5	

MAPID: 05786207000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095383

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671864

DATE COLLECTED: 8 / 26 / 1977

SURFACE ELEVATION (FT.): 733.3 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27232

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.3	PLEISTOCENE		SOIL	1.0	0.0	
732.3	PLEISTOCENE		CLAY & GRAVEL	24.8	1.0	
707.5	PLEISTOCENE		SAND & GRAVEL	21.9	25.8	
685.6	PLEISTOCENE		CLAY & GRAVEL	62.3	47.7	

MAPID: 05786208000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095026

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671639

DATE COLLECTED: 8 / 29 / 1977

SURFACE ELEVATION (FT.): 733.6 LOGGED (FT.): 104.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27233

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
733.6	PLEISTOCENE		SOIL	1.0	0.0
732.6	PLEISTOCENE		SANDY CLAY	24.0	1.0
708.6	PLEISTOCENE		CLAY & GRAVEL	9.4	25.0
699.2	PLEISTOCENE		CLAY, SAND & GRAVEL	15.6	34.4
683.6	PLEISTOCENE		CLAY & GRAVEL	35.0	50.0
648.6	CARBONDALE		DARK SHALE	10.5	85.0
638.1	CARBONDALE	ST. DAVID	LIMESTONE	0.5	95.5
637.6	CARBONDALE	TURNER MINE	DARK SHALE	1.6	96.0
636.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	97.6
635.0	CARBONDALE	SPRINGFIELD	COAL	3.6	98.6
631.4	CARBONDALE		UNDERCLAY	1.8	102.2

MAPID: 05786209000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094941

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671902

DATE COLLECTED: 8 / 29 / 1977

SURFACE ELEVATION (FT.): 733.4 LOGGED (FT.): 102.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27234

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
733.4	PLEISTOCENE		SOIL	22.7	0.0
710.7	PLEISTOCENE		CLAY & GRAVEL	37.3	22.7
673.4	PLEISTOCENE		CLAY & GRAVEL	33.9	60.0
639.5	PLEISTOCENE		CLAY	3.6	93.9
635.9	CARBONDALE	SPRINGFIELD	COAL	3.0	97.5
632.9	CARBONDALE		UNDERCLAY	1.5	100.5

SOFT, DIRTY; TOP
ERODED

MAPID: 0578621000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094606

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671705

DATE COLLECTED: 8 / 30 / 1977

SURFACE ELEVATION (FT.): 732.8 LOGGED (FT.): 104.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27235

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
732.8	PLEISTOCENE		SOIL	24.5	0.0
708.3	PLEISTOCENE		CLAY & GRAVEL	48.2	24.5
660.1	PLEISTOCENE		CLAY	11.8	72.7
648.3	CARBONDALE		DARK SHALE	13.1	84.5
635.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	97.6
634.2	CARBONDALE	SPRINGFIELD	COAL	3.7	98.6
630.5	CARBONDALE		UNDERCLAY	1.7	102.3

MAPID: 05786211000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094478

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671995

DATE COLLECTED: 8 / 30 / 1977

SURFACE ELEVATION (FT.): 731.2 LOGGED (FT.): 101.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27236

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
731.2	PLEISTOCENE		SOIL	1.0	0.0
730.2	PLEISTOCENE		SANDY CLAY	23.8	1.0
706.4	PLEISTOCENE		CLAY & GRAVEL	66.2	24.8
640.2	CARBONDALE		DARK SHALE	0.8	91.0
639.4	CARBONDALE	ST. DAVID	LIMESTONE	0.7	91.8
638.7	CARBONDALE	TURNER MINE	DARK SHALE	1.5	92.5
637.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	94.0
636.2	CARBONDALE	SPRINGFIELD	COAL	3.6	95.0
632.6	CARBONDALE		UNDERCLAY	2.4	98.6

MAPID: 05786212000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094777

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672206

DATE COLLECTED: 8 / 30 / 1977

SURFACE ELEVATION (FT.): 733.1 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27237

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
733.1	PLEISTOCENE		SOIL	24.5	0.0
708.6	PLEISTOCENE		SANDY CLAY	13.9	24.5
694.7	PLEISTOCENE		CLAY & GRAVEL	71.6	38.4

MAPID: 05786213000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094343

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672286

DATE COLLECTED: 8 / 31 / 1977

SURFACE ELEVATION (FT.): 731.4 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27238

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
731.4	PLEISTOCENE		SOIL	1.0	0.0
730.4	PLEISTOCENE		SANDY CLAY	19.5	1.0
710.9	PLEISTOCENE		CLAY & GRAVEL	85.9	20.5
625.0	CARBONDALE		LIMESTONE	0.6	106.4
624.4	CARBONDALE		GRAY SHALE	3.0	107.0

MAPID: 05786214000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094095

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672061

DATE COLLECTED: 8 / 31 / 1977

SURFACE ELEVATION (FT.): 729.0 LOGGED (FT.): 98.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27239

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
729.0	PLEISTOCENE		SOIL	1.0	0.0
728.0	PLEISTOCENE		SANDY CLAY	19.8	1.0
708.2	PLEISTOCENE		CLAY & GRAVEL	60.8	20.8
647.4	PLEISTOCENE		CLAY	4.4	81.6
643.0	CARBONDALE		LIMESTONE	0.3	86.0
642.7	CARBONDALE		DARK SHALE	2.3	86.3
640.4	CARBONDALE	ST. DAVID	LIMESTONE	1.4	88.6
639.0	CARBONDALE	TURNER MINE	DARK SHALE	1.4	90.0
637.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	91.4
636.3	CARBONDALE	SPRINGFIELD	COAL	3.7	92.7
632.6	CARBONDALE		UNDERCLAY	1.6	96.4

MAPID: 05786215000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.093902

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672343

DATE COLLECTED: 8 / 31 / 1977

SURFACE ELEVATION (FT.): 728.8 LOGGED (FT.): 98.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27240

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
728.8	PLEISTOCENE		SOIL	18.0	0.0
710.8	PLEISTOCENE		CLAY & GRAVEL	10.2	18.0
700.6	PLEISTOCENE		CLAY, SAND & GRAVEL	54.8	28.2
645.8	PLEISTOCENE		CLAY	7.8	83.0
638.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	90.8 BROKEN
636.8	CARBONDALE	SPRINGFIELD	COAL	3.6	92.0
633.2	CARBONDALE		SHALE/UNDERCLAY	2.4	95.6

MAPID: 05786216000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.093299

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672658

DATE COLLECTED: 9 / 6 / 1977

SURFACE ELEVATION (FT.): 730.4 LOGGED (FT.): 107.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27241

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
730.4	PLEISTOCENE		SOIL	20.0	0.0
710.4	PLEISTOCENE		CLAY & GRAVEL	85.0	20.0
625.4	CARBONDALE		GRAY SHALE	2.0	105.0

MAPID: 05786217000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.093362

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672365

DATE COLLECTED: 9 / 6 / 1977

SURFACE ELEVATION (FT.): 731.6 LOGGED (FT.): 101.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27242

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
731.6	PLEISTOCENE		SOIL	19.6	0.0
712.0	PLEISTOCENE		CLAY & GRAVEL	55.4	19.6
656.6	PLEISTOCENE		CLAY	9.0	75.0
647.6	CARBONDALE		DARK SHALE	1.0	84.0
646.6	CARBONDALE		LIMESTONE	0.3	85.0
646.3	CARBONDALE		DARK SHALE	8.9	85.3
637.4	CARBONDALE	ST. DAVID	LIMESTONE	0.5	94.2
636.9	CARBONDALE	TURNER MINE	SHALE	1.3	94.7
635.6	CARBONDALE	SPRINGFIELD	COAL	3.7	96.0
631.9	CARBONDALE		UNDERCLAY	1.3	99.7

MAPID: 05786218000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092955

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672612

DATE COLLECTED: 9 / 7 / 1977

SURFACE ELEVATION (FT.): 732.7 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27243

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.7	PLEISTOCENE		SOIL	24.8	0.0	
707.9	PLEISTOCENE		CLAY	5.7	24.8	AND BOULDER
702.2	PLEISTOCENE		CLAY & GRAVEL	66.5	30.5	
635.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	97.0	SOFT
634.2	CARBONDALE	SPRINGFIELD	COAL	3.9	98.5	
630.3	CARBONDALE		SHALE/UNDERCLAY	2.6	102.4	

MAPID: 05786219000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092939

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67288

DATE COLLECTED: 9 / 7 / 1977

SURFACE ELEVATION (FT.): 731.1 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27244

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.1	PLEISTOCENE		SOIL	30.0	0.0	
701.1	PLEISTOCENE		CLAY & GRAVEL	74.5	30.0	
626.6	PLEISTOCENE		BOULDER	1.3	104.5	
625.3	PLEISTOCENE		CLAY	4.2	105.8	

MAPID: 0578622000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09142 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672819 DATE COLLECTED: 9 / 7 / 1977

SURFACE ELEVATION (FT.): 729.9 LOGGED (FT.): 104.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27245 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.9	PLEISTOCENE		SOIL	1.0	0.0	
728.9	PLEISTOCENE		SANDY CLAY	23.8	1.0	
705.1	PLEISTOCENE		CLAY & GRAVEL	23.2	24.8	
681.9	PLEISTOCENE		CLAY, SAND & GRAVEL	48.0	48.0	
633.9	CARBONDALE	TURNER MINE	DARK SHALE	0.6	96.0	
633.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	96.6	
632.1	CARBONDALE	SPRINGFIELD	COAL	3.8	97.8	
628.3	CARBONDALE		SHALE/UNDERCLAY	2.4	101.6	

MAPID: 05786221000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.091934 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671528 DATE COLLECTED: 9 / 8 / 1977

SURFACE ELEVATION (FT.): 736.2 LOGGED (FT.): 110.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27246 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
736.2	PLEISTOCENE		SOIL	26.7	0.0	
709.5	PLEISTOCENE		SANDY CLAY	9.7	26.7	
699.8	PLEISTOCENE		CLAY & GRAVEL	5.6	36.4	
694.2	CARBONDALE	HERRIN	COAL	4.2	42.0	SOFT; TOP ERODED
690.0	CARBONDALE		UNDERCLAY	1.8	46.2	
688.2	CARBONDALE		SHALE & SANDSTONE	9.6	48.0	
678.6	CARBONDALE		SANDSTONE	12.4	57.6	HARD
666.2	CARBONDALE		GRAY SHALE	15.4	70.0	
650.8	CARBONDALE		DARK SHALE	15.4	85.4	
635.4	CARBONDALE		LIMESTONE	0.5	100.8	
634.9	CARBONDALE		DARK SHALE	1.5	101.3	
633.4	CARBONDALE	ST. DAVID	LIMESTONE	0.4	102.8	
633.0	CARBONDALE	TURNER MINE	SLATY SHALE	2.2	103.2	
630.8	CARBONDALE	SPRINGFIELD	COAL	3.6	105.4	
627.2	CARBONDALE		UNDERCLAY	1.0	109.0	

MAPID: 05786222000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.090743

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67078

DATE COLLECTED: 9 / 9 / 1977

SURFACE ELEVATION (FT.): 735.2 LOGGED (FT.): 113.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27247

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.2	PLEISTOCENE		SOIL	1.0	0.0	
734.2	PLEISTOCENE		SANDY CLAY	29.0	1.0	
705.2	PLEISTOCENE		CLAY & GRAVEL	13.5	30.0	
691.7	CARBONDALE	HERRIN	COAL	0.5	43.5	SOFT; TOP ERODED
691.2	CARBONDALE	HERRIN	COAL	3.4	44.0	
687.8	CARBONDALE		UNDERCLAY	1.6	47.4	
686.2	CARBONDALE		GRAY SHALE	3.8	49.0	
682.4	CARBONDALE		SANDSTONE	27.2	52.8	
655.2	CARBONDALE		DARK SHALE	25.0	80.0	
630.2	CARBONDALE	ST. DAVID	LIMESTONE	0.7	105.0	
629.5	CARBONDALE	TURNER MINE	SHALE	2.3	105.7	
627.2	CARBONDALE	SPRINGFIELD	COAL	3.6	108.0	
623.6	CARBONDALE		UNDERCLAY	1.4	111.6	

MAPID: 05786223000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.090761

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669539

DATE COLLECTED: 9 / 9 / 1977

SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 114.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27248

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
737.0	PLEISTOCENE		SOIL	26.0	0.0
711.0	PLEISTOCENE		SANDY CLAY	1.6	26.0
709.4	SHELBURN		SANDSTONE	6.4	27.6
703.0	SHELBURN		GRAY SHALE	12.5	34.0
690.5	CARBONDALE	HERRIN	COAL	2.4	46.5
688.1	CARBONDALE	HERRIN	BLUE BAND	0.2	48.9
687.9	CARBONDALE	HERRIN	COAL	1.4	49.1
686.5	CARBONDALE		UNDERCLAY	2.5	50.5
684.0	CARBONDALE		SANDSTONE	25.3	53.0
658.7	CARBONDALE		DARK SHALE	27.7	78.3
631.0	CARBONDALE	ST. DAVID	LIMESTONE	0.7	106.0
630.3	CARBONDALE	TURNER MINE	SHALE	2.2	106.7
628.1	CARBONDALE	SPRINGFIELD	COAL	3.7	108.9
624.4	CARBONDALE		UNDERCLAY	1.4	112.6

MAPID: 05786224000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.093928

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676252

DATE COLLECTED: 9 / 14 / 1977

SURFACE ELEVATION (FT.): 723.8 LOGGED (FT.): 93.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27249

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
723.8	PLEISTOCENE		SANDY CLAY	16.6	0.0
707.2	PLEISTOCENE		CLAY & GRAVEL	57.1	16.6
650.1	CARBONDALE		DARK SHALE	10.8	73.7
639.3	CARBONDALE	ST. DAVID	LIMESTONE	0.5	84.5
638.8	CARBONDALE	TURNER MINE	DARK SHALE	1.5	85.0
637.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	86.5
636.3	CARBONDALE	SPRINGFIELD	COAL	3.7	87.5
632.6	CARBONDALE		UNDERCLAY	1.8	91.2

MAPID: 05786225000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094125

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.675961

DATE COLLECTED: 9 / 14 / 1977

SURFACE ELEVATION (FT.): 724.6 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27250

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.6	PLEISTOCENE		SOIL	1.0	0.0	
723.6	CARBONDALE		SANDY CLAY	16.0	1.0	
707.6	PLEISTOCENE		CLAY	13.0	17.0	AND BOULDERS
694.6	PLEISTOCENE		CLAY & GRAVEL	65.0	30.0	
629.6	PLEISTOCENE		CLAY	3.5	95.0	AND BOULDERS
626.1	CARBONDALE		GRAY SHALE	1.5	98.5	

MAPID: 05786226000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094459

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676103

DATE COLLECTED: 9 / 16 / 1977

SURFACE ELEVATION (FT.): 725.0 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27251

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.0	PLEISTOCENE		SOIL	1.0	0.0	
724.0	PLEISTOCENE		SANDY CLAY	17.2	1.0	
706.8	PLEISTOCENE		BOULDER	1.0	18.2	
705.8	PLEISTOCENE		CLAY & GRAVEL	77.8	19.2	
628.0	PLEISTOCENE		CLAY	3.0	97.0	AND BOULDERS

MAPID: 05786227000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094324

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676355

DATE COLLECTED: 9 / 16 / 1977

SURFACE ELEVATION (FT.): 727.6 LOGGED (FT.): 95.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27252

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
727.6	PLEISTOCENE		SOIL	28.0	0.0
699.6	PLEISTOCENE		CLAY & GRAVEL	56.8	28.0
642.8	CARBONDALE		LIMESTONE	0.4	84.8
642.4	CARBONDALE		GRAY SHALE	1.6	85.2
640.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	86.8
640.3	CARBONDALE	TURNER MINE	DARK SHALE	1.2	87.3
639.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	88.5
638.1	CARBONDALE	SPRINGFIELD	COAL	3.8	89.5
634.3	CARBONDALE		UNDERCLAY	1.7	93.3

MAPID: 05786228000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.0947

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676312

DATE COLLECTED: 9 / 16 / 1977

SURFACE ELEVATION (FT.): 727.8 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27253

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
727.8	PLEISTOCENE		SOIL	1.0	0.0
726.8	PLEISTOCENE		SANDY CLAY	23.8	1.0
703.0	PLEISTOCENE		CLAY & GRAVEL	80.2	24.8
622.8	CARBONDALE		GRAY SHALE	5.0	105.0

MAPID: 05786229000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094583

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676536

DATE COLLECTED: 9 / 16 / 1977

SURFACE ELEVATION (FT.): 728.2 LOGGED (FT.): 95.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27254

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
728.2	PLEISTOCENE		SOIL	23.0	0.0
705.2	PLEISTOCENE		CLAY & GRAVEL	45.2	23.0
660.0	PLEISTOCENE		CLAY	4.8	68.2
655.2	CARBONDALE		DARK SHALE	13.5	73.0
641.7	CARBONDALE	ST. DAVID	LIMESTONE	0.5	86.5
641.2	CARBONDALE	TURNER MINE	DARK SHALE	1.2	87.0
640.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	88.2
638.7	CARBONDALE	SPRINGFIELD	COAL	3.7	89.5
635.0	CARBONDALE		UNDERCLAY	1.8	93.2

MAPID: 05786230000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095013

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67647

DATE COLLECTED: 9 / 19 / 1977

SURFACE ELEVATION (FT.): 728.9 LOGGED (FT.): 96.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27255

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
728.9	PLEISTOCENE		SOIL	20.8	0.0
708.1	PLEISTOCENE		BOULDER	0.8	20.8
707.3	PLEISTOCENE		CLAY & GRAVEL	64.7	21.6
642.6	PLEISTOCENE		CLAY	0.7	86.3
641.9	CARBONDALE	ST. DAVID	LIMESTONE	0.7	87.0
641.2	CARBONDALE	TURNER MINE	DARK SHALE	1.2	87.7
640.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	88.9
638.3	CARBONDALE	SPRINGFIELD	COAL	3.5	90.6
634.8	CARBONDALE		UNDERCLAY	1.9	94.1

MAPID: 05786231000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094985

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676167

DATE COLLECTED: 9 / 20 / 1977

SURFACE ELEVATION (FT.): 728.9 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27256

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.9	PLEISTOCENE		SOIL	1.0	0.0	
727.9	PLEISTOCENE		SANDY CLAY	24.5	1.0	
703.4	PLEISTOCENE		CLAY & GRAVEL	76.5	25.5	
626.9	PLEISTOCENE		CLAY, SAND & GRAVEL	5.8	102.0	
621.1			GRAY SHALE	2.2	107.8	

MAPID: 05786232000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09524

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676309

DATE COLLECTED: 9 / 20 / 1977

SURFACE ELEVATION (FT.): 729.2 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27257

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.2	PLEISTOCENE		SOIL	1.0	0.0	
728.2	PLEISTOCENE		CLAY & GRAVEL	23.5	1.0	YELLOW
704.7	PLEISTOCENE		CLAY & GRAVEL	77.5	24.5	GRAY
627.2	PLEISTOCENE		CLAY, SAND & GRAVEL	4.0	102.0	
623.2	CARBONDALE		GRAY SHALE	4.0	106.0	

MAPID: 05786233000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095272 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676698 DATE COLLECTED: 9 / 21 / 1977

SURFACE ELEVATION (FT.): 729.7 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27258 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
729.7	PLEISTOCENE		SOIL	1.0	0.0
728.7	PLEISTOCENE		SANDY CLAY	26.7	1.0
702.0	PLEISTOCENE		CLAY & GRAVEL	48.5	27.7
653.5	CARBONDALE		DARK SHALE	12.0	76.2
641.5	CARBONDALE	ST. DAVID	LIMESTONE	0.6	88.2
640.9	CARBONDALE	TURNER MINE	DARK SHALE	1.2	88.8
639.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	90.0
638.1	CARBONDALE	SPRINGFIELD	COAL	3.8	91.6
634.3	CARBONDALE		SHALE/UNDERCLAY	2.6	95.4

MAPID: 05786234000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09862 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684127 DATE COLLECTED: 4 / 18 / 1978

SURFACE ELEVATION (FT.): 733.3 LOGGED (FT.): 110.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27721 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
733.3	PLEISTOCENE		UNCONSOLIDATED	51.5	0.0
681.8	CARBONDALE		SHALE & SANDSTONE	34.5	51.5
647.3	CARBONDALE		DARK SHALE	15.0	86.0
632.3	CARBONDALE	ST. DAVID	LIMESTONE	0.4	101.0
631.9	CARBONDALE	TURNER MINE	DARK SHALE	1.4	101.4
630.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	102.8
629.0	CARBONDALE	SPRINGFIELD	COAL	3.7	104.3
625.3	CARBONDALE		UNDERCLAY	2.0	108.0

MAPID: 05786235000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09978 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.684144 DATE COLLECTED: 4 / 18 / 1978

SURFACE ELEVATION (FT.): 733.2 LOGGED (FT.): 107.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27722 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.2	PLEISTOCENE		UNCONSOLIDATED	48.0	0.0	
685.2	CARBONDALE		SHALE & SANDSTONE	35.8	48.0	
649.4	CARBONDALE		DARK SHALE	13.9	83.8	
635.5	CARBONDALE	ST. DAVID	LIMESTONE	0.5	97.7	
635.0	CARBONDALE	TURNER MINE	DARK SHALE	1.9	98.2	
633.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	100.1	
631.9	CARBONDALE	SPRINGFIELD	COAL	3.8	101.3	
628.1	CARBONDALE		UNDERCLAY	1.9	105.1	

MAPID: 05786236000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092101 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67276 DATE COLLECTED: 5 / 2 / 1978

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 105.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27732 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.0	PLEISTOCENE		CLAY	26.0	0.0	YELLOW
706.0	PLEISTOCENE		CLAY	68.0	26.0	GRAY
638.0	CARBONDALE		DARK SHALE	2.6	94.0	
635.4	CARBONDALE	ST. DAVID	LIMESTONE	0.7	96.6	
634.7	CARBONDALE	TURNER MINE	DARK SHALE	1.4	97.3	
633.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	98.7	
631.8	CARBONDALE	SPRINGFIELD	COAL	3.7	100.2	
628.1	CARBONDALE		UNDERCLAY	1.1	103.9	

MAPID: 05786237000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092284

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672994

DATE COLLECTED: 5 / 2 / 1978

SURFACE ELEVATION (FT.): 733.1 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27733

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
733.1	PLEISTOCENE		CLAY	27.0	0.0	YELLOW
706.1	PLEISTOCENE		CLAY	53.0	27.0	GRAY
653.1	PLEISTOCENE		SAND & GRAVEL	10.0	80.0	
643.1	PLEISTOCENE		CLAY	16.0	90.0	
627.1	CARBONDALE		UNDERCLAY	1.8	106.0	NO COAL
625.3	CARBONDALE		MICACEOUS SHALE	2.2	107.8	

MAPID: 05786238000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.091907

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673018

DATE COLLECTED: 5 / 3 / 1978

SURFACE ELEVATION (FT.): 733.6 LOGGED (FT.): 111.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27734

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
733.6	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
705.6	PLEISTOCENE		CLAY	53.0	28.0	GRAY
652.6	PLEISTOCENE		GRAVEL	8.0	81.0	
644.6	PLEISTOCENE		CLAY	17.5	89.0	
627.1	CARBONDALE		UNDERCLAY	1.7	106.5	
625.4	CARBONDALE		MICACEOUS SHALE	2.8	108.2	

MAPID: 05786239000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09162 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672909 DATE COLLECTED: 5 / 3 / 1978

SURFACE ELEVATION (FT.): 731.6 LOGGED (FT.): 105.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27735 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.6	PLEISTOCENE		CLAY	26.0	0.0	
705.6	PLEISTOCENE		GRAVEL	5.0	26.0	
700.6	PLEISTOCENE		CLAY	71.5	31.0	
629.1	CARBONDALE		MICACEOUS SHALE	2.5	102.5	

MAPID: 05786240000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09177 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672618 DATE COLLECTED: 5 / 3 / 1978

SURFACE ELEVATION (FT.): 734.0 LOGGED (FT.): 107.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27736 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.0	PLEISTOCENE		CLAY	29.0	0.0	YELLOW
705.0	PLEISTOCENE		CLAY	58.8	29.0	GRAY
646.2	CARBONDALE		LIMESTONE	0.4	87.8	
645.8	CARBONDALE		DARK SHALE	10.7	88.2	
635.1	CARBONDALE	ST. DAVID	LIMESTONE	0.3	98.9	
634.8	CARBONDALE	TURNER MINE	DARK SHALE	0.9	99.2	
633.9	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	100.1	
631.9	CARBONDALE	SPRINGFIELD	COAL	3.8	102.1	
628.1	CARBONDALE		UNDERCLAY	1.1	105.9	

MAPID: 05786241000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092352

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674199

DATE COLLECTED: 5 / 4 / 1978

SURFACE ELEVATION (FT.): 726.2 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27737

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.2	PLEISTOCENE		CLAY	27.0	0.0	YELLOW
699.2	PLEISTOCENE		CLAY	19.5	27.0	GRAY
679.7	CARBONDALE		GRAY SHALE	3.3	46.5	
676.4	CARBONDALE		SANDSTONE	10.7	49.8	
665.7	CARBONDALE		GRAY SHALE	19.5	60.5	
646.2	CARBONDALE		DARK SHALE	14.9	80.0	
631.3	CARBONDALE	ST. DAVID	LIMESTONE	0.4	94.9	
630.9	CARBONDALE	TURNER MINE	DARK SHALE	2.3	95.3	
628.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	97.6	
626.7	CARBONDALE	SPRINGFIELD	COAL	3.7	99.5	
623.0	CARBONDALE		UNDERCLAY	1.8	103.2	

MAPID: 05786242000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092346

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673465

DATE COLLECTED: 5 / 19 / 1978

SURFACE ELEVATION (FT.): 731.4 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27738

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.4	PLEISTOCENE		CLAY	21.0	0.0	
710.4	PLEISTOCENE		GRAVEL	6.0	21.0	
704.4	PLEISTOCENE		CLAY	62.0	27.0	
642.4	CARBONDALE		DARK SHALE	7.4	89.0	
635.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	96.4	
634.6	CARBONDALE	TURNER MINE	DARK SHALE	1.2	96.8	
633.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	98.0	
632.1	CARBONDALE	SPRINGFIELD	COAL	3.7	99.3	
628.4	CARBONDALE		UNDERCLAY	2.0	103.0	

MAPID: 05786243000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092347

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673195

DATE COLLECTED: 5 / 19 / 1978

SURFACE ELEVATION (FT.): 732.2 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27739

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
732.2	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
704.2	PLEISTOCENE		CLAY	78.5	28.0	GRAY
625.7	CARBONDALE		MICACEOUS SHALE	3.5	106.5	

MAPID: 05786244000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092808

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673264

DATE COLLECTED: 5 / 19 / 1978

SURFACE ELEVATION (FT.): 726.4 LOGGED (FT.): 98.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27740

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
726.4	PLEISTOCENE		CLAY	17.0	0.0	YELLOW
709.4	PLEISTOCENE		CLAY	59.5	17.0	GRAY
649.9	CARBONDALE		GRAY SHALE	3.0	76.5	
646.9	CARBONDALE		DARK SHALE	10.0	79.5	
636.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	89.6	
636.4	CARBONDALE	TURNER MINE	DARK SHALE	1.5	90.0	
634.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	91.5	
633.6	CARBONDALE	SPRINGFIELD	COAL	3.8	92.8	
629.8	CARBONDALE		UNDERCLAY	1.4	96.6	

MAPID: 05786245000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092861

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673101

DATE COLLECTED: 5 / 22 / 1978

SURFACE ELEVATION (FT.): 726.6 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27741

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
726.6	PLEISTOCENE		CLAY	18.5	0.0	
708.1	PLEISTOCENE		CLAY & GRAVEL	81.7	18.5	
626.4	CARBONDALE		MICACEOUS SHALE	4.8	100.2	

MAPID: 05786246000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095611

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676406

DATE COLLECTED: 5 / 22 / 1978

SURFACE ELEVATION (FT.): 728.3 LOGGED (FT.): 98.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27742

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.3	PLEISTOCENE		CLAY	29.0	0.0	YELLOW
699.3	PLEISTOCENE		CLAY	62.8	29.0	GRAY
636.5	CARBONDALE	SPRINGFIELD	COAL	3.9	91.8	SOFT AND BROKEN; TOP ERODED
632.6	CARBONDALE		SHALE/UNDERCLAY	2.3	95.7	

MAPID: 05786247000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095559

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676705

DATE COLLECTED: 5 / 22 / 1978

SURFACE ELEVATION (FT.): 728.6 LOGGED (FT.): 98.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27743

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.6	PLEISTOCENE		CLAY	30.0	0.0	YELLOW
698.6	PLEISTOCENE		CLAY	39.5	30.0	GRAY
659.1	CARBONDALE		GRAY SHALE	6.5	69.5	
652.6	CARBONDALE		DARK SHALE	13.7	76.0	
638.9	CARBONDALE	ST. DAVID	LIMESTONE	0.5	89.7	
638.4	CARBONDALE	TURNER MINE	DARK SHALE	1.4	90.2	
637.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	91.6	
635.8	CARBONDALE	SPRINGFIELD	COAL	3.7	92.8	
632.1	CARBONDALE		UNDERCLAY	1.5	96.5	

MAPID: 05786248000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096664

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673386

DATE COLLECTED: 4 / 17 / 1978

SURFACE ELEVATION (FT.): 732.5 LOGGED (FT.): 104.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27912

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
732.5	PLEISTOCENE		SOIL	34.8	0.0
697.7	PLEISTOCENE		CLAY & GRAVEL	59.4	34.8
638.3	CARBONDALE		DARK SHALE	1.2	94.2
637.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	95.4
636.7	CARBONDALE	TURNER MINE	DARK SHALE	1.2	95.8
635.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	97.0
634.3	CARBONDALE	SPRINGFIELD	COAL	3.8	98.2
630.5	CARBONDALE		UNDERCLAY	2.0	102.0

MAPID: 05786249000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096554

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673174

DATE COLLECTED: 4 / 17 / 1978

SURFACE ELEVATION (FT.): 733.2 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27913

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
733.2	PLEISTOCENE		SOIL	26.8	0.0
706.4	PLEISTOCENE		CLAY & GRAVEL	81.4	26.8
625.0	CARBONDALE		GRAY SHALE	1.8	108.2

MAPID: 05786250000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096306

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.67341

DATE COLLECTED: 4 / 18 / 1978

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 107.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27914

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
732.0	PLEISTOCENE		SOIL	25.0	0.0
707.0	PLEISTOCENE		CLAY & GRAVEL	73.2	25.0
633.8	PLEISTOCENE		SANDY CLAY	7.2	98.2
626.6	CARBONDALE		GRAY SHALE	1.6	105.4

MAPID: 05786251000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096836

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672259

DATE COLLECTED: 4 / 24 / 1978

SURFACE ELEVATION (FT.): 733.3 LOGGED (FT.): 103.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27915

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.3	PLEISTOCENE		SOIL	25.1	0.0	
708.2	PLEISTOCENE		BOULDER	2.3	25.1	
705.9	PLEISTOCENE		CLAY & GRAVEL	67.6	27.4	
638.3	PLEISTOCENE		CLAY	0.9	95.0	
637.4	CARBONDALE	ST. DAVID	LIMESTONE	0.3	95.9	
637.1	CARBONDALE	TURNER MINE	DARK SHALE	1.2	96.2	SOFT
635.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	97.4	SOFT
634.5	CARBONDALE	SPRINGFIELD	COAL	2.3	98.8	SOFT
632.2	CARBONDALE		UNDERCLAY	1.9	101.1	

MAPID: 05786252000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094473

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674337

DATE COLLECTED: 4 / 24 / 1978

SURFACE ELEVATION (FT.): 722.9 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27916

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.9	PLEISTOCENE		SOIL	19.0	0.0	
703.9	PLEISTOCENE		CLAY & GRAVEL	78.0	19.0	
625.9	CARBONDALE		GRAY SHALE	3.0	97.0	

MAPID: 05786253000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095577

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674238

DATE COLLECTED: 4 / 25 / 1978

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27917

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
730.0	PLEISTOCENE		SOIL	20.0	0.0
710.0	PLEISTOCENE		CLAY & GRAVEL	47.0	20.0
663.0	PLEISTOCENE		CLAY	5.5	67.0
657.5	CARBONDALE		GRAY SHALE	6.9	72.5
650.6	CARBONDALE		LIMESTONE	0.3	79.4
650.3	CARBONDALE		DARK SHALE	11.7	79.7
638.6	CARBONDALE	ST. DAVID	LIMESTONE	0.7	91.4
637.9	CARBONDALE	TURNER MINE	SHALE	2.7	92.1
635.2	CARBONDALE	SPRINGFIELD	COAL	3.6	94.8
631.6	CARBONDALE		UNDERCLAY	1.6	98.4

MAPID: 05786254000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.095893

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673828

DATE COLLECTED: 4 / 25 / 1978

SURFACE ELEVATION (FT.): 729.8 LOGGED (FT.): 101.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27918

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
729.8	PLEISTOCENE		SOIL	27.0	0.0
702.8	PLEISTOCENE		CLAY & GRAVEL	51.2	27.0
651.6	CARBONDALE		GRAY SHALE	14.0	78.2
637.6	CARBONDALE	ST. DAVID	LIMESTONE	0.8	92.2
636.8	CARBONDALE	TURNER MINE	SHALE	3.0	93.0
633.8	CARBONDALE	SPRINGFIELD	COAL	3.7	96.0
630.1	CARBONDALE		UNDERCLAY	1.3	99.7

MAPID: 05786255000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096032

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673543

DATE COLLECTED: 4 / 26 / 1978

SURFACE ELEVATION (FT.): 729.6 LOGGED (FT.): 107.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27919

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
729.6	PLEISTOCENE		SOIL	23.4	0.0
706.2	PLEISTOCENE		CLAY & GRAVEL	66.6	23.4
639.6	PLEISTOCENE		SANDY CLAY	13.5	90.0
626.1	CARBONDALE		GRAY SHALE	3.5	103.5

MAPID: 05786256000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096352

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673724

DATE COLLECTED: 4 / 26 / 1978

SURFACE ELEVATION (FT.): 731.8 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27920

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
731.8	PLEISTOCENE		SOIL	27.8	0.0
704.0	PLEISTOCENE		CLAY & GRAVEL	35.2	27.8
668.8	PLEISTOCENE		SANDY CLAY	12.9	63.0
655.9	CARBONDALE		LIMESTONE	0.6	75.9
655.3	CARBONDALE		DARK SHALE	19.4	76.5
635.9	CARBONDALE	ST. DAVID	LIMESTONE	0.6	95.9
635.3	CARBONDALE	TURNER MINE	SHALE	2.3	96.5
633.0	CARBONDALE	SPRINGFIELD	COAL	3.8	98.8
629.2	CARBONDALE		UNDERCLAY	2.4	102.6

MAPID: 05786257000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092547 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.672819 DATE COLLECTED: 4 / 27 / 1978
SURFACE ELEVATION (FT.): 730.9 LOGGED (FT.): 106.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMEAST 27921 WELL TYPE: Coal Test
COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
730.9	PLEISTOCENE		SOIL	21.5	0.0
709.4	PLEISTOCENE		CLAY & GRAVEL	30.5	21.5
678.9	PLEISTOCENE		BOULDER	1.3	52.0
677.6	PLEISTOCENE		CLAY & GRAVEL	50.1	53.3
627.5	CARBONDALE		LIMESTONE	0.6	103.4
626.9	CARBONDALE		GRAY SHALE	2.0	104.0

MAPID: 05786258000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092552 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 40.672537 DATE COLLECTED: 4 / 27 / 1978
SURFACE ELEVATION (FT.): 732.5 LOGGED (FT.): 104.0 LOG TYPE: Drillers Log
SOURCE: MIDLAND COAL CO. FARMEAST 27922 WELL TYPE: Coal Test
COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
732.5	PLEISTOCENE		SOIL	23.6	0.0
708.9	PLEISTOCENE		CLAY & GRAVEL	56.4	23.6
652.5	PLEISTOCENE		SANDY CLAY	4.5	80.0
648.0	CARBONDALE		DARK SHALE	10.8	84.5
637.2	CARBONDALE	ST. DAVID	LIMESTONE	1.0	95.3
636.2	CARBONDALE	TURNER MINE	SHALE	2.5	96.3
633.7	CARBONDALE	SPRINGFIELD	COAL	3.7	98.8
630.0	CARBONDALE		UNDERCLAY	1.5	102.5

MAPID: 05786259000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.093199

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674029

DATE COLLECTED: 5 / 19 / 1978

SURFACE ELEVATION (FT.): 717.5 LOGGED (FT.): 92.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27925

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
717.5	PLEISTOCENE		SANDY CLAY	14.9	0.0
702.6	PLEISTOCENE		CLAY & GRAVEL	17.1	14.9
685.5	PLEISTOCENE		BOULDER	0.6	32.0
684.9	PLEISTOCENE		CLAY & GRAVEL	6.6	32.6
678.3	CARBONDALE		GRAY SANDSTONE	11.3	39.2
667.0	CARBONDALE		GRAY SHALE	21.5	50.5
645.5	CARBONDALE		LIMESTONE	0.5	72.0
645.0	CARBONDALE		DARK SHALE	12.3	72.5
632.7	CARBONDALE	ST. DAVID	LIMESTONE	0.5	84.8
632.2	CARBONDALE	TURNER MINE	SHALE	1.7	85.3
630.5	CARBONDALE	SPRINGFIELD	COAL	3.6	87.0
626.9	CARBONDALE		UNDERCLAY	1.4	90.6

MAPID: 05786260000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.092796

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673606

DATE COLLECTED: 5 / 19 / 1978

SURFACE ELEVATION (FT.): 725.3 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27926

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
725.3	PLEISTOCENE		SOIL	20.0	0.0
705.3	PLEISTOCENE		CLAY & GRAVEL	31.8	20.0
673.5	CARBONDALE		GRAY SANDSTONE	5.2	51.8
668.3	CARBONDALE		DARK SHALE	32.5	57.0
635.8	CARBONDALE	ST. DAVID	LIMESTONE	0.7	89.5
635.1	CARBONDALE	TURNER MINE	SHALE	3.4	90.2
631.7	CARBONDALE	SPRINGFIELD	COAL	3.9	93.6
627.8	CARBONDALE		SHALE/UNDERCLAY	2.5	97.5

MAPID: 05786261000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.093123

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673293

DATE COLLECTED: 5 / 22 / 1978

SURFACE ELEVATION (FT.): 726.2 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 27927

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.2	PLEISTOCENE		SANDY CLAY	20.5	0.0	
705.7	PLEISTOCENE		CLAY & GRAVEL	63.3	20.5	
642.4	PLEISTOCENE		CLAY	4.7	83.8	
637.7	PLEISTOCENE		BOULDER	0.6	88.5	
637.1	PLEISTOCENE		CLAY	3.4	89.1	
633.7	PLEISTOCENE		BOULDER	1.3	92.5	
632.4	CARBONDALE		GRAY SHALE	6.2	93.8	

MAPID: 05786263000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.087515

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678546

DATE COLLECTED: 3 / 2 / 1979

SURFACE ELEVATION (FT.): 732.2 LOGGED (FT.): 55.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28263

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.2	PLEISTOCENE		SOIL	27.5	0.0	
704.7	PLEISTOCENE		CLAY & GRAVEL	27.5	27.5	

MAPID: 05786264000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.087554

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678824

DATE COLLECTED: 3 / 2 / 1979

SURFACE ELEVATION (FT.): 732.5 LOGGED (FT.): 50.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28264

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
732.5	PLEISTOCENE		SOIL	27.5	0.0
705.0	PLEISTOCENE		BOULDER	1.0	27.5
704.0	PLEISTOCENE		CLAY & GRAVEL	8.5	28.5
695.5	CARBONDALE		GRAY SHALE	5.9	37.0
689.6	CARBONDALE	BRERETON	LIMESTONE	1.1	42.9
688.5	CARBONDALE	ANNA	BLACK SHALE	0.6	44.0
687.9	CARBONDALE	HERRIN	COAL	2.4	44.6
685.5	CARBONDALE	HERRIN	BLUE BAND	0.2	47.0
685.3	CARBONDALE	HERRIN	COAL	1.8	47.2
683.5	CARBONDALE		UNDERCLAY	1.0	49.0

MAPID: 05786265000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.087926

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.678676

DATE COLLECTED: 3 / 2 / 1979

SURFACE ELEVATION (FT.): 731.1 LOGGED (FT.): 60.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28265

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
731.1	PLEISTOCENE		SOIL	26.7	0.0
704.4	PLEISTOCENE		CLAY & GRAVEL	29.7	26.7
674.7			SHALE & SANDSTONE	3.6	56.4

MAPID: 05786266000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.089209

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.680378

DATE COLLECTED: 2 / 1 / 1979

SURFACE ELEVATION (FT.): 726.0 LOGGED (FT.): 106.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28368

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.0	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
698.0	PLEISTOCENE		CLAY	50.0	28.0	GRAY
648.0	CARBONDALE		MICACEOUS SHALE	3.5	78.0	
644.5	CARBONDALE		DARK SHALE	15.6	81.5	
628.9	CARBONDALE	ST. DAVID	LIMESTONE	0.4	97.1	
628.5	CARBONDALE	TURNER MINE	DARK SHALE	1.4	97.5	
627.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	98.9	
625.2	CARBONDALE	SPRINGFIELD	COAL	3.7	100.8	
621.5	CARBONDALE		UNDERCLAY	1.5	104.5	

MAPID: 05786267000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.090724

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.676221

DATE COLLECTED: 2 / 12 / 1979

SURFACE ELEVATION (FT.): 685.3 LOGGED (FT.): 66.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28375

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.3	PLEISTOCENE		CLAY	14.0	0.0	YELLOW
671.3	PLEISTOCENE		CLAY	10.5	14.0	GRAY
660.8	CARBONDALE		GRAY SHALE	19.0	24.5	
641.8	CARBONDALE		DARK SHALE	13.3	43.5	
628.5	CARBONDALE	ST. DAVID	LIMESTONE	0.7	56.8	
627.8	CARBONDALE	TURNER MINE	DARK SHALE	1.4	57.5	
626.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	58.9	
624.9	CARBONDALE	SPRINGFIELD	COAL	3.8	60.4	
621.1	CARBONDALE		UNDERCLAY	1.8	64.2	

MAPID: 05786268000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.090201

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674753

DATE COLLECTED: 2 / 12 / 1979

SURFACE ELEVATION (FT.): 688.1 LOGGED (FT.): 68.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28376

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.1	PLEISTOCENE		CLAY	11.0	0.0
677.1	CARBONDALE		GRAY SHALE	35.5	11.0
641.6	CARBONDALE		DARK SHALE	13.2	46.5
628.4	CARBONDALE	ST. DAVID	LIMESTONE	0.5	59.7
627.9	CARBONDALE	TURNER MINE	DARK SHALE	1.1	60.2
626.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	61.3
625.3	CARBONDALE	SPRINGFIELD	COAL	3.8	62.8
621.5	CARBONDALE		UNDERCLAY	1.4	66.6

MAPID: 05786269000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.088696

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673307

DATE COLLECTED: 2 / 13 / 1979

SURFACE ELEVATION (FT.): 691.1 LOGGED (FT.): 69.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28377

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
691.1	PLEISTOCENE		CLAY	11.5	0.0
679.6	CARBONDALE		GRAY SHALE	35.0	11.5
644.6	CARBONDALE		DARK SHALE	13.6	46.5
631.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	60.1
630.5	CARBONDALE	TURNER MINE	DARK SHALE	1.2	60.6
629.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	61.8
627.8	CARBONDALE	SPRINGFIELD	COAL	3.7	63.3
624.1	CARBONDALE		UNDERCLAY	2.0	67.0

MAPID: 0578627000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09138 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.677912 DATE COLLECTED: 2 / 19 / 1979

SURFACE ELEVATION (FT.): 680.6 LOGGED (FT.): 60.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28380 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.6	PLEISTOCENE		CLAY	12.0	0.0	YELLOW
668.6	PLEISTOCENE		CLAY	25.5	12.0	GRAY
643.1	CARBONDALE		DARK SHALE	13.7	37.5	
629.4	CARBONDALE	ST. DAVID	LIMESTONE	0.4	51.2	
629.0	CARBONDALE	TURNER MINE	DARK SHALE	1.2	51.6	
627.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	52.8	
626.3	CARBONDALE	SPRINGFIELD	COAL	3.6	54.3	
622.7	CARBONDALE		UNDERCLAY	2.1	57.9	

MAPID: 05786272000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.093321 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673546 DATE COLLECTED: 5 / 22 / 1979

SURFACE ELEVATION (FT.): 723.7 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28450 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.7	PLEISTOCENE		CLAY	18.0	0.0	YELLOW
705.7	PLEISTOCENE		CLAY	44.0	18.0	GRAY
661.7	CARBONDALE		MICACEOUS SHALE	14.0	62.0	
647.7	CARBONDALE		DARK SHALE	12.0	76.0	
635.7	CARBONDALE	ST. DAVID	LIMESTONE	0.8	88.0	
634.9	CARBONDALE	TURNER MINE	DARK SHALE	0.8	88.8	
634.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	89.6	
632.2	CARBONDALE	SPRINGFIELD	COAL	3.8	91.5	
628.4	CARBONDALE		UNDERCLAY	1.7	95.3	

MAPID: 05786273000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.093555

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673365

DATE COLLECTED: 5 / 22 / 1979

SURFACE ELEVATION (FT.): 717.8 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28451

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.8	PLEISTOCENE		UNCONSOLIDATED	73.5	0.0	
644.3	CARBONDALE		DARK SHALE	9.3	73.5	
635.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	82.8	
634.6	CARBONDALE	TURNER MINE	DARK SHALE	0.8	83.2	
633.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	84.0	
632.7	CARBONDALE	SPRINGFIELD	COAL	3.5	85.1	
629.2	CARBONDALE		UNDERCLAY	1.4	88.6	

MAPID: 05786274000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.093695

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673646

DATE COLLECTED: 6 / 6 / 1979

SURFACE ELEVATION (FT.): 723.7 LOGGED (FT.): 97.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28487

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.7	PLEISTOCENE		CLAY	24.0	0.0	YELLOW
699.7	PLEISTOCENE		CLAY	39.0	24.0	GRAY
660.7	CARBONDALE		GRAY SHALE	14.0	63.0	
646.7	CARBONDALE		DARK SHALE	11.6	77.0	
635.1	CARBONDALE	ST. DAVID	LIMESTONE	0.3	88.6	
634.8	CARBONDALE	TURNER MINE	DARK SHALE	1.5	88.9	
633.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	90.4	
631.9	CARBONDALE	SPRINGFIELD	COAL	3.9	91.8	
628.0	CARBONDALE		UNDERCLAY	1.3	95.7	

MAPID: 05786275000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094167

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673666

DATE COLLECTED: 6 / 6 / 1979

SURFACE ELEVATION (FT.): 724.5 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28488

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.5	PLEISTOCENE		CLAY	30.0	0.0	YELLOW
694.5	PLEISTOCENE		CLAY	41.0	30.0	GRAY
653.5	CARBONDALE		GRAY SHALE	12.4	71.0	
641.1	CARBONDALE		DARK SHALE	10.8	83.4	
630.3	CARBONDALE	ST. DAVID	LIMESTONE	0.3	94.2	
630.0	CARBONDALE	TURNER MINE	DARK SHALE	1.8	94.5	
628.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	96.3	
627.0	CARBONDALE	SPRINGFIELD	COAL	3.8	97.5	
623.2	CARBONDALE		UNDERCLAY	3.7	101.3	

MAPID: 05786276000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094367

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673325

DATE COLLECTED: 6 / 8 / 1979

SURFACE ELEVATION (FT.): 726.4 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28489

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.4	PLEISTOCENE		CLAY	31.0	0.0	
695.4	PLEISTOCENE		UNCONSOLIDATED	75.0	31.0	
620.4	CARBONDALE		MICACEOUS SHALE	4.0	106.0	

MAPID: 05786277000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.094539

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673578

DATE COLLECTED: 6 / 8 / 1979

SURFACE ELEVATION (FT.): 727.2 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28490

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
727.2	PLEISTOCENE		CLAY	32.0	0.0
695.2	PLEISTOCENE		CLAY & GRAVEL	50.0	32.0
645.2	CARBONDALE		GRAY SHALE	2.0	82.0
643.2	CARBONDALE		DARK SHALE	10.0	84.0
633.2	CARBONDALE	ST. DAVID	LIMESTONE	0.6	94.0
632.6	CARBONDALE	TURNER MINE	DARK SHALE	1.7	94.6
630.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	96.3
629.5	CARBONDALE	SPRINGFIELD	COAL	3.6	97.7
625.9	CARBONDALE		UNDERCLAY	3.7	101.3

MAPID: 05786286000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09932

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66959

DATE COLLECTED: 11 / 5 / 1979

SURFACE ELEVATION (FT.): 733.1 LOGGED (FT.): 112.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28670

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
733.1	PLEISTOCENE		CLAY	32.0	0.0
701.1	PLEISTOCENE		CLAY & GRAVEL	80.0	32.0

MAPID: 05786317000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099103

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670088

DATE COLLECTED: 11 / 0 / 1979

SURFACE ELEVATION (FT.): 733.4 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28702

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
733.4	PLEISTOCENE		SOIL	26.0	0.0
707.4	PLEISTOCENE		CLAY & GRAVEL	5.3	26.0 YELLOW
702.1	PLEISTOCENE		CLAY & GRAVEL	73.7	31.3

MAPID: 05786319000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099586

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670163

DATE COLLECTED: 11 / 21 / 1979

SURFACE ELEVATION (FT.): 734.5 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28704

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.5	PLEISTOCENE		SOIL	26.3	0.0	
708.2	PLEISTOCENE		CLAY & GRAVEL	60.2	26.3	
648.0	PLEISTOCENE		CLAY	3.5	86.5	
644.5	CARBONDALE		LIMESTONE	0.5	90.0	
644.0	CARBONDALE		DARK SHALE	4.5	90.5	
639.5	CARBONDALE	ST. DAVID	LIMESTONE	0.5	95.0	
639.0	CARBONDALE	TURNER MINE	DARK SHALE	1.3	95.5	
637.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	96.8	
637.0	CARBONDALE	SPRINGFIELD	COAL	3.3	97.5	
633.7	CARBONDALE		SHALE/UNDERCLAY	4.2	100.8	

MAPID: 05786327000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100758

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670386

DATE COLLECTED: 12 / 3 / 1979

SURFACE ELEVATION (FT.): 734.5 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28712

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.5	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
706.5	PLEISTOCENE		CLAY	67.0	28.0	GRAY
639.5	CARBONDALE	TURNER MINE	DARK SHALE	1.4	95.0	
638.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	96.4	
636.5	CARBONDALE	SPRINGFIELD	COAL	3.6	98.0	
632.9	CARBONDALE		UNDERCLAY	3.4	101.6	

MAPID: 05786328000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100795

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670068

DATE COLLECTED: 12 / 3 / 1979

SURFACE ELEVATION (FT.): 734.6 LOGGED (FT.): 103.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28713

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.6	PLEISTOCENE		CLAY	29.0	0.0	YELLOW
705.6	PLEISTOCENE		CLAY	55.5	29.0	GRAY
650.1	CARBONDALE		DARK SHALE	9.1	84.5	
641.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	93.6	
640.6	CARBONDALE	TURNER MINE	DARK SHALE	1.6	94.0	
639.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	95.6	
637.6	CARBONDALE	SPRINGFIELD	COAL	3.7	97.0	
633.9	CARBONDALE		UNDERCLAY	2.3	100.7	

MAPID: 05786340000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 18 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.097722

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669987

DATE COLLECTED: 12 / 6 / 1979

SURFACE ELEVATION (FT.): 733.4 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28725

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.4	PLEISTOCENE		CLAY	24.0	0.0	YELLOW
709.4	PLEISTOCENE		CLAY	86.0	24.0	GRAY

MAPID: 05784956000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101268

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662297

DATE COLLECTED: 5 / 27 / 1975

SURFACE ELEVATION (FT.): 705.3 LOGGED (FT.): 87.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23162

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
705.3	PLEISTOCENE		SOIL	1.0	0.0	
704.3	PLEISTOCENE		CLAY	18.0	1.0	YELLOW
686.3	PLEISTOCENE		CLAY	48.0	19.0	GRAY
638.3	CARBONDALE		LIMESTONE	0.5	67.0	
637.8	CARBONDALE		DARK SHALE	4.5	67.5	
633.3	CARBONDALE		GRAY SHALE	8.0	72.0	
625.3	CARBONDALE		BLACK SHALE	1.5	80.0	
623.8	CARBONDALE		GRAY SHALE	5.5	81.5	

MAPID: 05784960000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101486

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.656979

DATE COLLECTED: 6 / 2 / 1975

SURFACE ELEVATION (FT.): 728.6 LOGGED (FT.): 111.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23166

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.6	PLEISTOCENE		SOIL	1.0	0.0	
727.6	PLEISTOCENE		CLAY	25.0	1.0	YELLOW
702.6	PLEISTOCENE		CLAY	71.0	26.0	GRAY
631.6	PLEISTOCENE		CLAY, SAND & GRAVEL	11.0	97.0	
620.6			GRAY SHALE	3.0	108.0	

MAPID: 05784964000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101395

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.663585

DATE COLLECTED: 7 / 29 / 1975

SURFACE ELEVATION (FT.): 713.0 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23312

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
713.0	PLEISTOCENE		SANDY CLAY	20.0	0.0
693.0	PLEISTOCENE		CLAY, SAND & GRAVEL	40.0	20.0
653.0	PLEISTOCENE		CLAY & GRAVEL	5.3	60.0
647.7	CARBONDALE		DARK SHALE	5.7	65.3
642.0	CARBONDALE	ST. DAVID	LIMESTONE	0.8	71.0
641.2	CARBONDALE	TURNER MINE	DARK SHALE	1.2	71.8
640.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	73.0
638.9	CARBONDALE	SPRINGFIELD	COAL	3.9	74.1
635.0	CARBONDALE		UNDERCLAY	2.0	78.0

MAPID: 05784970000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100108

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660526

DATE COLLECTED: 11 / 19 / 1976

SURFACE ELEVATION (FT.): 730.3 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26143

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
730.3	PLEISTOCENE		UNCONSOLIDATED	48.0	0.0
682.3	CARBONDALE		GRAY SHALE	27.4	48.0
654.9	CARBONDALE		DARK SHALE	6.4	75.4
648.5	CARBONDALE	ST. DAVID	LIMESTONE	0.8	81.8
647.7	CARBONDALE	TURNER MINE	SHALE	2.8	82.6
644.9	CARBONDALE	SPRINGFIELD	COAL	3.4	85.4
641.5	CARBONDALE		UNDERCLAY	1.2	88.8

MAPID: 05784971000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100771

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660531

DATE COLLECTED: 11 / 22 / 1976

SURFACE ELEVATION (FT.): 727.7 LOGGED (FT.): 86.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26145

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.7	PLEISTOCENE		SOIL	23.5	0.0	
704.2	PLEISTOCENE		SANDY CLAY	44.5	23.5	
659.7	CARBONDALE		GRAY SHALE	8.8	68.0	
650.9	CARBONDALE	ST. DAVID	LIMESTONE	0.4	76.8	
650.5	CARBONDALE	TURNER MINE	DARK SHALE	1.2	77.2	
649.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	78.4	
648.1	CARBONDALE	SPRINGFIELD	COAL	3.8	79.6	
644.3	CARBONDALE		UNDERCLAY	2.6	83.4	

MAPID: 05784972000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101151

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660546

DATE COLLECTED: 11 / 22 / 1976

SURFACE ELEVATION (FT.): 726.6 LOGGED (FT.): 82.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26146

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
726.6	PLEISTOCENE		SOIL	1.0	0.0	
725.6	PLEISTOCENE		SANDY CLAY	28.5	1.0	YELLOW
697.1	PLEISTOCENE		SANDY CLAY	38.5	29.5	GRAY
658.6	PLEISTOCENE		SANDY CLAY	5.1	68.0	GREEN
653.5	CARBONDALE		GRAY SHALE	1.3	73.1	
652.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	74.4	
651.8	CARBONDALE	TURNER MINE	DARK SHALE	1.0	74.8	
650.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	75.8	
649.8	CARBONDALE	SPRINGFIELD	COAL	3.5	76.8	
646.3	CARBONDALE		UNDERCLAY	1.7	80.3	

MAPID: 05784973000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101303

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660147

DATE COLLECTED: 11 / 23 / 1976

SURFACE ELEVATION (FT.): 722.6 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26147

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.6	PLEISTOCENE		SOIL	1.0	0.0	
721.6	PLEISTOCENE		SANDY CLAY	19.0	1.0	
702.6	PLEISTOCENE		CLAY, SAND & GRAVEL	29.5	20.0	
673.1	PLEISTOCENE		CLAY & GRAVEL	25.9	49.5	
647.2	CARBONDALE	SPRINGFIELD	COAL	3.0	75.4	VERY SOFT; TOP ERODED
644.2	CARBONDALE		UNDERCLAY	1.6	78.4	

MAPID: 05784974000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100934

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660166

DATE COLLECTED: 11 / 23 / 1976

SURFACE ELEVATION (FT.): 723.7 LOGGED (FT.): 81.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26148

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
723.7	PLEISTOCENE		SANDY CLAY	22.0	0.0	YELLOW
701.7	PLEISTOCENE		SANDY CLAY	44.0	22.0	GRAY
657.7	PLEISTOCENE		CLAY	4.5	66.0	GREEN
653.2	CARBONDALE		GRAY SHALE	3.2	70.5	
650.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	73.7	
649.6	CARBONDALE	TURNER MINE	DARK SHALE	1.3	74.1	
648.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	75.4	
647.5	CARBONDALE	SPRINGFIELD	COAL	3.0	76.2	
644.5	CARBONDALE		UNDERCLAY	1.8	79.2	

MAPID: 05784975000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09824 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659487 DATE COLLECTED: 11 / 24 / 1976

SURFACE ELEVATION (FT.): 722.2 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26150 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.2	PLEISTOCENE		SOIL	1.0	0.0	
721.2	PLEISTOCENE		SANDY CLAY	18.5	1.0	
702.7	PLEISTOCENE		CLAY & GRAVEL	80.5	19.5	

MAPID: 05784976000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099543 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659398 DATE COLLECTED: 11 / 24 / 1976

SURFACE ELEVATION (FT.): 721.3 LOGGED (FT.): 84.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26151 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.3	PLEISTOCENE		SOIL	1.0	0.0	
720.3	PLEISTOCENE		SANDY CLAY	19.0	1.0	YELLOW
701.3	PLEISTOCENE		SANDY CLAY	18.2	20.0	GRAY
683.1	PLEISTOCENE		SANDY CLAY	27.8	38.2	GREEN
655.3	CARBONDALE		GRAY SHALE	3.4	66.0	
651.9	CARBONDALE		DARK SHALE	6.4	69.4	
645.5	CARBONDALE	ST. DAVID	LIMESTONE	0.3	75.8	
645.2	CARBONDALE	TURNER MINE	DARK SHALE	1.4	76.1	
643.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	77.5	
642.8	CARBONDALE	SPRINGFIELD	COAL	3.6	78.5	
639.2	CARBONDALE		UNDERCLAY	1.9	82.1	

MAPID: 05784977000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099084

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659461

DATE COLLECTED: 11 / 24 / 1976

SURFACE ELEVATION (FT.): 724.5 LOGGED (FT.): 85.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26152

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.5	PLEISTOCENE		SOIL	22.0	0.0	
702.5	PLEISTOCENE		CLAY & GRAVEL	16.5	22.0	
686.0	PLEISTOCENE		SANDY CLAY	21.5	38.5	
664.5	CARBONDALE		GRAY SHALE	12.0	60.0	
652.5	CARBONDALE		DARK SHALE	5.0	72.0	
647.5	CARBONDALE	ST. DAVID	LIMESTONE	0.4	77.0	
647.1	CARBONDALE	TURNER MINE	DARK SHALE	2.0	77.4	
645.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	79.4	
644.2	CARBONDALE	SPRINGFIELD	COAL	3.5	80.3	
640.7	CARBONDALE		UNDERCLAY	1.2	83.8	

MAPID: 05784978000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098714

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659471

DATE COLLECTED: 11 / 29 / 1976

SURFACE ELEVATION (FT.): 725.7 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26153

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.7	PLEISTOCENE		SANDY CLAY	25.0	0.0	YELLOW
700.7	PLEISTOCENE		SANDY CLAY	24.8	25.0	GRAY
675.9	CARBONDALE		GRAY SHALE	10.2	49.8	SOFT
665.7	CARBONDALE		DARK SHALE	16.5	60.0	
649.2	CARBONDALE		LIMESTONE	0.3	76.5	
648.9	CARBONDALE		DARK SHALE	4.8	76.8	
644.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	81.6	
643.7	CARBONDALE	TURNER MINE	DARK SHALE	1.5	82.0	
642.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	83.5	
641.3	CARBONDALE	SPRINGFIELD	COAL	3.3	84.4	
638.0	CARBONDALE		UNDERCLAY	2.3	87.7	

MAPID: 05784979000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098448

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659232

DATE COLLECTED: 11 / 30 / 1976

SURFACE ELEVATION (FT.): 730.4 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26154

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.4	PLEISTOCENE		SOIL	27.5	0.0	
702.9	PLEISTOCENE		SANDY CLAY	59.7	27.5	
643.2	CARBONDALE	ST. DAVID	DARK SHALE	0.5	87.2	
642.7	CARBONDALE	TURNER MINE	DARK SHALE	1.5	87.7	
641.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	89.2	SOFT
640.4	CARBONDALE	SPRINGFIELD	COAL	3.7	90.0	
636.7	CARBONDALE		UNDERCLAY	2.3	93.7	
634.4	CARBONDALE		GRAY SHALE	4.0	96.0	

MAPID: 05784980000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.0981

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659215

DATE COLLECTED: 11 / 30 / 1976

SURFACE ELEVATION (FT.): 732.3 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26155

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
732.3	PLEISTOCENE		SOIL	1.0	0.0	
731.3	PLEISTOCENE		SANDY CLAY	23.7	1.0	YELLOW
707.6	PLEISTOCENE		SANDY CLAY	75.3	24.7	GRAY

MAPID: 05784981000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098312

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658987

DATE COLLECTED: 11 / 30 / 1976

SURFACE ELEVATION (FT.): 731.9 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26156

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.9	PLEISTOCENE		SOIL	1.0	0.0	
730.9	PLEISTOCENE		SANDY CLAY	29.0	1.0	YELLOW
701.9	PLEISTOCENE		SANDY CLAY	70.0	30.0	GRAY

MAPID: 05784982000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098645

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659005

DATE COLLECTED: 12 / 1 / 1976

SURFACE ELEVATION (FT.): 731.3 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26157

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.3	PLEISTOCENE		SOIL	1.0	0.0	
730.3	PLEISTOCENE		SANDY CLAY	26.0	1.0	YELLOW
704.3	PLEISTOCENE		SANDY CLAY	73.0	27.0	GRAY

MAPID: 05784983000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098832

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659269

DATE COLLECTED: 12 / 1 / 1976

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 94.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26158

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.0	PLEISTOCENE		SOIL	1.0	0.0	
729.0	PLEISTOCENE		SANDY CLAY	25.0	1.0	
704.0	PLEISTOCENE		CLAY & GRAVEL	53.0	26.0	
651.0	CARBONDALE		DARK SHALE	5.5	79.0	
645.5	CARBONDALE	ST. DAVID	LIMESTONE	0.8	84.5	
644.7	CARBONDALE	TURNER MINE	DARK SHALE	1.5	85.3	
643.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	86.8	
642.2	CARBONDALE	SPRINGFIELD	COAL	3.9	87.8	
638.3	CARBONDALE		UNDERCLAY	2.3	91.7	

MAPID: 05784984000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099044

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659025

DATE COLLECTED: 12 / 2 / 1976

SURFACE ELEVATION (FT.): 730.5 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26159

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.5	PLEISTOCENE		SOIL	1.0	0.0	
729.5	PLEISTOCENE		SANDY CLAY	24.5	1.0	YELLOW
705.0	PLEISTOCENE		SANDY CLAY	53.3	25.5	GRAY
651.7	PLEISTOCENE		CLAY & GRAVEL	21.2	78.8	

MAPID: 05784985000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099252

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659223

DATE COLLECTED: 12 / 3 / 1976

SURFACE ELEVATION (FT.): 729.1 LOGGED (FT.): 92.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26160

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.1	PLEISTOCENE		SOIL	1.0	0.0	
728.1	PLEISTOCENE		SANDY CLAY	28.5	1.0	YELLOW
699.6	PLEISTOCENE		SANDY CLAY	54.2	29.5	GRAY
645.4	CARBONDALE	ST. DAVID	LIMESTONE	1.0	83.7	
644.4	CARBONDALE	TURNER MINE	DARK SHALE	0.5	84.7	
643.9	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	85.2	
643.0	CARBONDALE	SPRINGFIELD	COAL	3.9	86.1	
639.1	CARBONDALE		UNDERCLAY	2.0	90.0	

MAPID: 05784986000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099558

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658995

DATE COLLECTED: 12 / 3 / 1976

SURFACE ELEVATION (FT.): 728.3 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26161

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.3	PLEISTOCENE		SOIL	1.0	0.0	
727.3	PLEISTOCENE		SANDY CLAY	27.5	1.0	
699.8	PLEISTOCENE		CLAY & GRAVEL	50.1	28.5	
649.7	PLEISTOCENE		BOULDER	1.5	78.6	
648.2	PLEISTOCENE		CLAY, SAND & GRAVEL	19.9	80.1	

MAPID: 05784987000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099853

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659197

DATE COLLECTED: 12 / 6 / 1976

SURFACE ELEVATION (FT.): 720.9 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26162

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
720.9	PLEISTOCENE		CLAY	21.8	0.0	YELLOW
699.1	PLEISTOCENE		SANDY CLAY	66.9	21.8	GRAY
632.2			LIMESTONE	1.3	88.7	

MAPID: 05784988000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100118

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.65966

DATE COLLECTED: 12 / 7 / 1976

SURFACE ELEVATION (FT.): 713.2 LOGGED (FT.): 74.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26163

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
713.2	PLEISTOCENE		SOIL	1.0	0.0	
712.2	PLEISTOCENE		SANDY CLAY	24.5	1.0	YELLOW
687.7	PLEISTOCENE		SANDY CLAY	30.1	25.5	GRAY
657.6	CARBONDALE		DARK SHALE	9.9	55.6	
647.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	65.5	
647.3	CARBONDALE	TURNER MINE	DARK SHALE	1.3	65.9	
646.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	67.2	
645.0	CARBONDALE	SPRINGFIELD	COAL	3.9	68.2	
641.1	CARBONDALE		UNDERCLAY	1.9	72.1	

MAPID: 05784989000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100571

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659257

DATE COLLECTED: 12 / 8 / 1976

SURFACE ELEVATION (FT.): 714.1 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26164

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
714.1	PLEISTOCENE		SANDY CLAY	27.5	0.0	YELLOW
686.6	PLEISTOCENE		SANDY CLAY	51.0	27.5	GRAY
635.6	PLEISTOCENE		BOULDER	0.7	78.5	
634.9	PLEISTOCENE		SANDY CLAY	8.8	79.2	
626.1	CARBONDALE		GRAY SHALE	2.0	88.0	

MAPID: 0578499000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101042 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659191 DATE COLLECTED: 12 / 8 / 1976

SURFACE ELEVATION (FT.): 702.1 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26165 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.1	PLEISTOCENE		SOIL	1.0	0.0	
701.1	PLEISTOCENE		SANDY CLAY	18.8	1.0	YELLOW
682.3	PLEISTOCENE		SANDY CLAY	29.2	19.8	GRAY
653.1	PLEISTOCENE		CLAY & GRAVEL	21.0	49.0	

MAPID: 05784991000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098601 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662288 DATE COLLECTED: 12 / 15 / 1976

SURFACE ELEVATION (FT.): 729.5 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26171 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.5	PLEISTOCENE		SOIL	25.0	0.0	
704.5	PLEISTOCENE		CLAY, SAND & GRAVEL	11.0	25.0	
693.5	CARBONDALE		GRAY SHALE	2.1	36.0	
691.4	CARBONDALE		SANDSTONE	18.7	38.1	
672.7	CARBONDALE		GRAY SHALE	22.1	56.8	
650.6	CARBONDALE		LIMESTONE	0.2	78.9	
650.4	CARBONDALE		DARK SHALE	5.1	79.1	
645.3	CARBONDALE		LIMESTONE	0.2	84.2	
645.1	CARBONDALE		DARK SHALE	4.6	84.4	
640.5	CARBONDALE	ST. DAVID	LIMESTONE	0.7	89.0	
639.8	CARBONDALE	TURNER MINE	DARK SHALE	1.3	89.7	
638.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	91.0	
637.1	CARBONDALE	SPRINGFIELD	COAL	3.6	92.4	
633.5	CARBONDALE		UNDERCLAY	1.8	96.0	
631.7	CARBONDALE		GRAY SHALE	2.2	97.8	

MAPID: 05784992000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098845

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66115

DATE COLLECTED: 12 / 15 / 1976

SURFACE ELEVATION (FT.): 733.7 LOGGED (FT.): 97.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26172

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
733.7	PLEISTOCENE		SOIL	1.0	0.0
732.7	PLEISTOCENE		SANDY CLAY	25.1	1.0
707.6	PLEISTOCENE		CLAY & GRAVEL	16.9	26.1
690.7	CARBONDALE		GRAY SHALE	6.5	43.0
684.2	CARBONDALE		SANDSTONE	0.8	49.5
683.4	CARBONDALE		GRAY SHALE	19.7	50.3
663.7	CARBONDALE		DARK SHALE	19.0	70.0
644.7	CARBONDALE	ST. DAVID	LIMESTONE	0.3	89.0
644.4	CARBONDALE	TURNER MINE	DARK SHALE	1.7	89.3
642.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	91.0
641.7	CARBONDALE	SPRINGFIELD	COAL	3.5	92.0
638.2	CARBONDALE		UNDERCLAY	1.5	95.5

MAPID: 05784993000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098098

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659857

DATE COLLECTED: 12 / 14 / 1976

SURFACE ELEVATION (FT.): 722.9 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26169

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
722.9	PLEISTOCENE		SOIL	16.8	0.0
706.0	PLEISTOCENE		SANDY CLAY	29.2	16.9
676.9	CARBONDALE		GRAY SHALE	14.0	46.0
662.9	CARBONDALE		DARK SHALE	16.2	60.0
646.7	CARBONDALE		LIMESTONE	0.3	76.2
646.4	CARBONDALE		DARK SHALE	4.9	76.5
641.5	CARBONDALE	ST. DAVID	LIMESTONE	0.8	81.4
640.7	CARBONDALE	TURNER MINE	DARK SHALE	1.5	82.2
639.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	83.7
638.3	CARBONDALE	SPRINGFIELD	COAL	3.8	84.6
634.5	CARBONDALE		UNDERCLAY	1.6	88.4

MAPID: 05784994000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100024

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658849

DATE COLLECTED: 11 / 17 / 1976

SURFACE ELEVATION (FT.): 725.4 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26433

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.4	PLEISTOCENE		CLAY	24.0	0.0	YELLOW
701.4	PLEISTOCENE		CLAY	81.0	24.0	GRAY

MAPID: 05784995000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100042

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662215

DATE COLLECTED: 11 / 22 / 1976

SURFACE ELEVATION (FT.): 715.6 LOGGED (FT.): 80.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26437

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.6	PLEISTOCENE		CLAY	12.5	0.0	YELLOW
703.1	PLEISTOCENE		CLAY	27.7	12.5	GRAY
675.4	CARBONDALE		GRAY SHALE	23.8	40.2	
651.6	CARBONDALE		DARK SHALE	8.0	64.0	
643.6	CARBONDALE	ST. DAVID	LIMESTONE	0.4	72.0	
643.2	CARBONDALE	TURNER MINE	DARK SHALE	2.2	72.4	
641.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	74.6	
640.1	CARBONDALE	SPRINGFIELD	COAL	3.4	75.5	
636.7	CARBONDALE		UNDERCLAY	1.1	78.9	

MAPID: 05784996000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100639

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66206

DATE COLLECTED: 11 / 22 / 1976

SURFACE ELEVATION (FT.): 711.8 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26438

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
711.8	PLEISTOCENE		CLAY	20.0	0.0	YELLOW
691.8	PLEISTOCENE		CLAY	27.0	20.0	GRAY
664.8	CARBONDALE		SHALE	5.5	47.0	
659.3	CARBONDALE		DARK SHALE	7.5	52.5	
651.8	CARBONDALE	ST. DAVID	LIMESTONE	0.3	60.0	
651.5	CARBONDALE	TURNER MINE	DARK SHALE	1.8	60.3	
649.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	62.1	
648.5	CARBONDALE	SPRINGFIELD	COAL	3.7	63.3	
644.8	CARBONDALE		UNDERCLAY	3.0	67.0	

MAPID: 05784997000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101066

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661972

DATE COLLECTED: 11 / 23 / 1976

SURFACE ELEVATION (FT.): 709.4 LOGGED (FT.): 70.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26439

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
709.4	PLEISTOCENE		CLAY	21.5	0.0	YELLOW
687.9	PLEISTOCENE		CLAY	40.6	21.5	GRAY
647.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	62.1	
646.0	CARBONDALE	SPRINGFIELD	COAL	3.7	63.4	
642.3	CARBONDALE		UNDERCLAY	2.9	67.1	

MAPID: 05784998000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10125 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661916 DATE COLLECTED: 11 / 23 / 1976

SURFACE ELEVATION (FT.): 706.5 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26440 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.5	PLEISTOCENE		CLAY	22.0	0.0	
684.5	PLEISTOCENE		UNCONSOLIDATED	45.8	22.0	
638.7	CARBONDALE		UNDERCLAY	1.9	67.8	NO COAL
636.8	CARBONDALE		GRAY SHALE	5.3	69.7	

MAPID: 05784999000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100824 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661731 DATE COLLECTED: 11 / 23 / 1976

SURFACE ELEVATION (FT.): 719.3 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26441 WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.3	PLEISTOCENE		CLAY	24.0	0.0	YELLOW
695.3	PLEISTOCENE		CLAY	38.0	24.0	GRAY
657.3	CARBONDALE		GRAY SHALE	6.1	62.0	
651.2	CARBONDALE		DARK SHALE	4.3	68.1	
646.9	CARBONDALE	ST. DAVID	LIMESTONE	0.6	72.4	
646.3	CARBONDALE	TURNER MINE	DARK SHALE	1.6	73.0	
644.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	74.6	
643.4	CARBONDALE	SPRINGFIELD	COAL	3.5	75.9	
639.9	CARBONDALE		UNDERCLAY	1.6	79.4	

MAPID: 0578500000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100814

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661383

DATE COLLECTED: 11 / 24 / 1976

SURFACE ELEVATION (FT.): 721.8 LOGGED (FT.): 81.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26442

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.8	PLEISTOCENE		CLAY	22.5	0.0	YELLOW
699.3	PLEISTOCENE		CLAY	35.8	22.5	GRAY
663.5	CARBONDALE		GRAY SHALE	8.9	58.3	
654.6	CARBONDALE		DARK SHALE	5.3	67.2	
649.3	CARBONDALE	ST. DAVID	LIMESTONE	0.7	72.5	
648.6	CARBONDALE	TURNER MINE	DARK SHALE	2.0	73.2	
646.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	75.2	
645.5	CARBONDALE	SPRINGFIELD	COAL	3.6	76.3	
641.9	CARBONDALE		UNDERCLAY	1.0	79.9	

MAPID: 05785001000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101254

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.661508

DATE COLLECTED: 11 / 24 / 1976

SURFACE ELEVATION (FT.): 712.8 LOGGED (FT.): 71.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26443

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
712.8	PLEISTOCENE		CLAY	23.0	0.0	
689.8	PLEISTOCENE		CLAY	36.8	23.0	GRAY
653.0	CARBONDALE		DARK SHALE	2.2	59.8	
650.8	CARBONDALE	ST. DAVID	LIMESTONE	0.6	62.0	
650.2	CARBONDALE	TURNER MINE	DARK SHALE	1.4	62.6	
648.8	CARBONDALE	TURNER MINE	DARK SHALE	1.3	64.0	
647.5	CARBONDALE	SPRINGFIELD	COAL	3.7	65.3	
643.8	CARBONDALE		UNDERCLAY	2.0	69.0	

MAPID: 05785002000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101225

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66116

DATE COLLECTED: 11 / 24 / 1976

SURFACE ELEVATION (FT.): 717.3 LOGGED (FT.): 75.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26444

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
717.3	PLEISTOCENE		CLAY	24.0	0.0	YELLOW
693.3	PLEISTOCENE		CLAY	43.5	24.0	GRAY
649.8	CARBONDALE	TURNER MINE	DARK SHALE	1.1	67.5	
648.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	68.6	
648.0	CARBONDALE	SPRINGFIELD	COAL	3.6	69.3	
644.4	CARBONDALE		UNDERCLAY	2.1	72.9	

MAPID: 05785003000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101294

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.660774

DATE COLLECTED: 11 / 24 / 1976

SURFACE ELEVATION (FT.): 724.9 LOGGED (FT.): 82.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26445

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
724.9	PLEISTOCENE		CLAY	30.3	0.0	YELLOW
694.6	PLEISTOCENE		CLAY	39.7	30.3	
654.9	CARBONDALE		GRAY SHALE	2.2	70.0	
652.7	CARBONDALE		DARK SHALE	2.9	72.2	
649.8	CARBONDALE	TURNER MINE	DARK SHALE	1.1	75.1	
648.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	76.2	
647.9	CARBONDALE	SPRINGFIELD	COAL	3.0	77.0	
644.9	CARBONDALE		UNDERCLAY	2.0	80.0	

MAPID: 05785004000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.097724

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659699

DATE COLLECTED: 11 / 29 / 1976

SURFACE ELEVATION (FT.): 723.7 LOGGED (FT.): 95.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26446

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
723.7	PLEISTOCENE		CLAY	16.8	0.0	YELLOW
706.9	PLEISTOCENE		CLAY	69.4	16.8	GRAY
637.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	86.2	
636.2	CARBONDALE	SPRINGFIELD	COAL	3.8	87.5	
632.4	CARBONDALE		UNDERCLAY	3.7	91.3	

MAPID: 05785005000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098659

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.659717

DATE COLLECTED: 11 / 29 / 1976

SURFACE ELEVATION (FT.): 713.2 LOGGED (FT.): 78.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 26447

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
713.2	PLEISTOCENE		CLAY	9.0	0.0	YELLOW
704.2	PLEISTOCENE		CLAY	19.2	9.0	GRAY
685.0	CARBONDALE		GRAY SHALE	35.8	28.2	
649.2	CARBONDALE		DARK SHALE	5.3	64.0	
643.9	CARBONDALE	ST. DAVID	LIMESTONE	0.4	69.3	
643.5	CARBONDALE	TURNER MINE	DARK SHALE	1.8	69.7	
641.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	71.5	
640.8	CARBONDALE	SPRINGFIELD	COAL	3.9	72.4	
636.9	CARBONDALE		UNDERCLAY	1.7	76.3	

MAPID: 05785095000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101729

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.662471

DATE COLLECTED:

SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT5

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
737.0			UNKNOWN	120.0	0.0	NO COAL

MAPID: 05785096000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.110772

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.658764

DATE COLLECTED:

SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 100.1

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT8

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.0			UNKNOWN	95.7	0.0	
641.3	CARBONDALE	SPRINGFIELD	COAL	4.4	95.7	

MAPID: 05785097000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.116331

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.653212

DATE COLLECTED:

SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 120.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST TT14

WELL TYPE: Coal Test

COMMENT: COORDINATES INCORRECT. CO MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
737.0			UNKNOWN	120.0	0.0	NO COAL

MAPID: 05786278000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099388

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667852

DATE COLLECTED: 11 / 1 / 1979

SURFACE ELEVATION (FT.): 735.7 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28662

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.7	PLEISTOCENE		CLAY	32.0	0.0	YELLOW
703.7	PLEISTOCENE		CLAY	42.2	32.0	GRAY
661.5	CARBONDALE		GRAY SHALE	3.7	74.2	
657.8	CARBONDALE		DARK SHALE	17.4	77.9	
640.4	CARBONDALE	ST. DAVID	LIMESTONE	0.4	95.3	
640.0	CARBONDALE	TURNER MINE	DARK SHALE	1.9	95.7	
638.1	CARBONDALE	TURNER MINE	DARK SHALE	1.1	97.6	
637.0	CARBONDALE	SPRINGFIELD	COAL	3.7	98.7	
633.3	CARBONDALE		UNDERCLAY	2.6	102.4	

MAPID: 05786279000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096939

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66782

DATE COLLECTED: 11 / 1 / 1979

SURFACE ELEVATION (FT.): 737.0 LOGGED (FT.): 107.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28663

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
737.0	PLEISTOCENE		CLAY	35.0	0.0
702.0	MODESTO		GRAY SHALE	6.5	35.0
695.5	CARBONDALE	HERRIN	COAL	2.0	41.5
693.5	CARBONDALE		UNDERCLAY	1.6	43.5
691.9	CARBONDALE		MICACEOUS SHALE	42.9	45.1
649.0	CARBONDALE		DARK SHALE	10.4	88.0
638.6	CARBONDALE	ST. DAVID	LIMESTONE	0.6	98.4
638.0	CARBONDALE	TURNER MINE	DARK SHALE	1.5	99.0
636.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	100.5
635.2	CARBONDALE	SPRINGFIELD	COAL	3.7	101.8
631.5	CARBONDALE		UNDERCLAY	1.5	105.5

MAPID: 05786280000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09496

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667802

DATE COLLECTED: 11 / 1 / 1979

SURFACE ELEVATION (FT.): 735.7 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28664

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
735.7	PLEISTOCENE		CLAY	37.5	0.0
698.2	SHELBURN		GRAY SHALE	2.4	37.5
695.8	CARBONDALE	HERRIN	COAL	3.7	39.9
692.1	CARBONDALE		UNDERCLAY	1.7	43.6
690.4	CARBONDALE		MICACEOUS SHALE	2.2	45.3
688.2	CARBONDALE		SANDSTONE	3.1	47.5
685.1	CARBONDALE		SILTY SHALE	7.4	50.6
677.7	CARBONDALE		SANDSTONE	8.0	58.0
669.7	CARBONDALE		MICACEOUS SHALE	23.0	66.0
646.7	CARBONDALE		DARK SHALE	12.2	89.0
634.5	CARBONDALE	ST. DAVID	LIMESTONE	0.6	101.2
633.9	CARBONDALE	TURNER MINE	DARK SHALE	1.6	101.8
632.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	103.4
631.2	CARBONDALE	SPRINGFIELD	COAL	3.8	104.5
627.4	CARBONDALE		UNDERCLAY	1.7	108.3

MAPID: 05786281000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09262 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667794 DATE COLLECTED: 11 / 1 / 1979

SURFACE ELEVATION (FT.): 734.5 LOGGED (FT.): 116.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28665 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.5	PLEISTOCENE		CLAY	22.0	0.0	YELLOW
712.5	PLEISTOCENE		CLAY	19.0	22.0	GRAY
693.5	SHELBURN		GRAY SHALE	6.0	41.0	
687.5	CARBONDALE	HERRIN	COAL	3.4	47.0	
684.1	CARBONDALE		UNDERCLAY	1.8	50.4	
682.3	CARBONDALE		MICACEOUS SHALE	9.3	52.2	
673.0	CARBONDALE		SANDSTONE	5.2	61.5	
667.8	CARBONDALE		SHALE & SANDSTONE	31.3	66.7	
636.5	CARBONDALE		DARK SHALE	9.6	98.0	
626.9	CARBONDALE	ST. DAVID	LIMESTONE	0.4	107.6	
626.5	CARBONDALE	TURNER MINE	DARK SHALE	1.2	108.0	
625.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	109.2	
624.1	CARBONDALE	SPRINGFIELD	COAL	3.9	110.4	
620.2	CARBONDALE		UNKNOWN	1.7	114.3	

MAPID: 05786282000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099003 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.6765 DATE COLLECTED: 11 / 2 / 1979

SURFACE ELEVATION (FT.): 725.5 LOGGED (FT.): 94.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28666 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.5	PLEISTOCENE		CLAY	24.0	0.0	YELLOW
701.5	PLEISTOCENE		CLAY	56.0	24.0	GRAY
645.5	CARBONDALE		DARK SHALE	5.1	80.0	
640.4	CARBONDALE	ST. DAVID	LIMESTONE	0.4	85.1	
640.0	CARBONDALE	TURNER MINE	DARK SHALE	1.5	85.5	
638.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	87.0	
637.1	CARBONDALE	SPRINGFIELD	COAL	4.0	88.4	
633.1	CARBONDALE		UNDERCLAY	1.6	92.4	

MAPID: 05786283000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099075

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674728

DATE COLLECTED: 11 / 2 / 1979

SURFACE ELEVATION (FT.): 721.7 LOGGED (FT.): 90.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28667

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.7	PLEISTOCENE		CLAY	11.0	0.0	
710.7	PLEISTOCENE		CLAY & GRAVEL	52.0	11.0	
658.7	CARBONDALE		GRAY SHALE	7.0	63.0	
651.7	CARBONDALE		DARK SHALE	11.5	70.0	
640.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	81.5	
639.8	CARBONDALE	TURNER MINE	DARK SHALE	1.6	81.9	
638.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	83.5	
636.9	CARBONDALE	SPRINGFIELD	COAL	3.8	84.8	
633.1	CARBONDALE		UNDERCLAY	1.4	88.6	

MAPID: 05786284000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099237

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672967

DATE COLLECTED: 11 / 2 / 1979

SURFACE ELEVATION (FT.): 730.9 LOGGED (FT.): 95.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28668

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.9	PLEISTOCENE		CLAY	23.0	0.0	YELLOW
707.9	PLEISTOCENE		CLAY	28.0	23.0	GRAY
679.9	CARBONDALE		GRAY SHALE	25.5	51.0	
654.4	CARBONDALE		DARK SHALE	10.1	76.5	
644.3	CARBONDALE	ST. DAVID	LIMESTONE	0.4	86.6	
643.9	CARBONDALE	TURNER MINE	DARK SHALE	1.7	87.0	
642.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	88.7	
641.0	CARBONDALE	SPRINGFIELD	COAL	3.8	89.9	
637.2	CARBONDALE		UNDERCLAY	1.3	93.7	

MAPID: 05786285000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099242 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671486 DATE COLLECTED: 11 / 2 / 1979

SURFACE ELEVATION (FT.): 734.1 LOGGED (FT.): 102.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28669 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.1	PLEISTOCENE		CLAY	27.0	0.0	YELLOW
707.1	PLEISTOCENE		CLAY	58.0	27.0	GRAY
649.1	CARBONDALE		DARK SHALE	8.0	85.0	
641.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	93.0	
640.7	CARBONDALE	TURNER MINE	DARK SHALE	1.9	93.4	
638.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	95.3	
637.7	CARBONDALE	SPRINGFIELD	COAL	3.8	96.4	
633.9	CARBONDALE		UNDERCLAY	1.8	100.2	

MAPID: 05786287000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.097218 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673248 DATE COLLECTED: 11 / 5 / 1979

SURFACE ELEVATION (FT.): 731.0 LOGGED (FT.): 110.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28671 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.0	PLEISTOCENE		CLAY	27.0	0.0	
704.0	PLEISTOCENE		CLAY & GRAVEL	83.0	27.0	

MAPID: 05786288000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.097261

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673659

DATE COLLECTED: 11 / 7 / 1979

SURFACE ELEVATION (FT.): 730.6 LOGGED (FT.): 102.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28672

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.6	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
702.6	PLEISTOCENE		CLAY	57.5	28.0	GRAY
645.1	CARBONDALE		DARK SHALE	6.9	85.5	
638.2	CARBONDALE	ST. DAVID	LIMESTONE	0.5	92.4	
637.7	CARBONDALE	TURNER MINE	DARK SHALE	1.4	92.9	
636.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	94.3	
634.4	CARBONDALE	SPRINGFIELD	COAL	3.7	96.2	
630.7	CARBONDALE		UNDERCLAY	2.1	99.9	

MAPID: 05786289000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09815

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673839

DATE COLLECTED: 11 / 7 / 1979

SURFACE ELEVATION (FT.): 727.9 LOGGED (FT.): 106.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28676

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.9	PLEISTOCENE		CLAY	25.0	0.0	YELLOW
702.9	PLEISTOCENE		CLAY	77.5	25.0	GRAY
625.4	CARBONDALE		MICACEOUS SHALE	3.5	102.5	

MAPID: 05786290000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09778

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673739

DATE COLLECTED: 1 / 7 / 1979

SURFACE ELEVATION (FT.): 727.1 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28674

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.1	PLEISTOCENE		CLAY	24.0	0.0	
703.1	PLEISTOCENE		CLAY & GRAVEL	75.6	24.0	
627.5	CARBONDALE		SHALE/UNDERCLAY	5.4	99.6	

MAPID: 05786291000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.097641

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673971

DATE COLLECTED: 11 / 8 / 1979

SURFACE ELEVATION (FT.): 728.8 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28675

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.8	PLEISTOCENE		CLAY	24.0	0.0	YELLOW
704.8	PLEISTOCENE		CLAY	42.5	24.0	GRAY
662.3	CARBONDALE		GRAY SHALE	12.5	66.5	
649.8	CARBONDALE		DARK SHALE	12.5	79.0	
637.3	CARBONDALE	ST. DAVID	LIMESTONE	0.4	91.5	
636.9	CARBONDALE	TURNER MINE	DARK SHALE	1.6	91.9	
635.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	93.5	
634.4	CARBONDALE	SPRINGFIELD	COAL	3.7	94.4	
630.7	CARBONDALE		UNDERCLAY	1.9	98.1	

MAPID: 05786292000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09815

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673839

DATE COLLECTED: 11 / 8 / 1979

SURFACE ELEVATION (FT.): 727.0 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28676

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.0	PLEISTOCENE		CLAY	27.0	0.0	
700.0	PLEISTOCENE		CLAY & GRAVEL	72.5	27.0	
627.5	CARBONDALE		SHALE/UNDERCLAY	5.5	99.5	

MAPID: 05786293000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09816 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674107 DATE COLLECTED: 11 / 8 / 1979

SURFACE ELEVATION (FT.): 725.5 LOGGED (FT.): 95.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28677 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG.FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
725.5	PLEISTOCENE		CLAY	23.0	0.0	YELLOW
702.5	PLEISTOCENE		CLAY	64.8	23.0	GRAY
637.7	CARBONDALE	TURNER MINE	DARK SHALE	1.4	87.8	
636.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	89.2	
635.7	CARBONDALE	SPRINGFIELD	COAL	3.6	89.8	SOFT BROKEN
632.1	CARBONDALE		UNDERCLAY	1.6	93.4	

MAPID: 05786294000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098518 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.674 DATE COLLECTED: 11 / 9 / 1979

SURFACE ELEVATION (FT.): 727.9 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28678 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
727.9	PLEISTOCENE		CLAY	24.0	0.0	YELLOW
703.9	PLEISTOCENE		CLAY	64.5	24.0	GRAY
639.4	CARBONDALE	TURNER MINE	DARK SHALE	2.1	88.5	
637.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	90.6	
636.4	CARBONDALE	SPRINGFIELD	COAL	3.8	91.5	
632.6	CARBONDALE		UNDERCLAY	1.7	95.3	

MAPID: 05786295000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09846 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673578 DATE COLLECTED: 11 / 9 / 1979

SURFACE ELEVATION (FT.): 728.9 LOGGED (FT.): 95.9 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28679 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
728.9	PLEISTOCENE		CLAY	25.0	0.0	
703.9	PLEISTOCENE		CLAY	47.0	25.0	GREY
656.9	CARBONDALE		GRAY SHALE	5.2	72.0	
651.7	CARBONDALE		DARK SHALE	9.5	77.2	
642.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	86.7	
641.8	CARBONDALE	TURNER MINE	DARK SHALE	2.5	87.1	
639.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	89.6	
638.2	CARBONDALE	SPRINGFIELD	COAL	3.5	90.7	
634.7	CARBONDALE		UNDERCLAY	1.7	94.2	

MAPID: 05786296000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098099 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673406 DATE COLLECTED: 11 / 9 / 1979

SURFACE ELEVATION (FT.): 729.5 LOGGED (FT.): 96.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28680 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.5	PLEISTOCENE		CLAY	25.0	0.0	YELLOW
704.5	PLEISTOCENE		CLAY	67.0	25.0	GRAY
637.5	CARBONDALE	SPRINGFIELD	COAL	1.9	92.0	SOFT BROKEN; TOP ERODED
635.6	CARBONDALE		UNDERCLAY	2.1	93.9	

MAPID: 05786297000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09838 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673212 DATE COLLECTED: 11 / 12 / 1979

SURFACE ELEVATION (FT.): 730.4 LOGGED (FT.): 96.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28681 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.4	PLEISTOCENE		CLAY	27.0	0.0	YELLOW
703.4	PLEISTOCENE		CLAY	49.5	27.0	GRAY
653.9	CARBONDALE		DARK SHALE	11.2	76.5	
642.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	87.7	
642.3	CARBONDALE	TURNER MINE	DARK SHALE	1.7	88.1	
640.6	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	89.8	
639.9	CARBONDALE	SPRINGFIELD	COAL	3.6	90.5	
636.3	CARBONDALE		UNDERCLAY	1.9	94.1	

MAPID: 05786298000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098078 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673034 DATE COLLECTED: 11 / 12 / 1979

SURFACE ELEVATION (FT.): 730.3 LOGGED (FT.): 96.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28682 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.3	PLEISTOCENE		CLAY	27.0	0.0	YELLOW
703.3	PLEISTOCENE		CLAY	48.0	27.0	GRAY
655.3	CARBONDALE		GRAY SHALE	5.2	75.0	
650.1	CARBONDALE		DARK SHALE	7.8	80.2	
642.3	CARBONDALE	ST. DAVID	LIMESTONE	0.5	88.0	
641.8	CARBONDALE	TURNER MINE	DARK SHALE	1.5	88.5	
640.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	90.0	
639.3	CARBONDALE	SPRINGFIELD	COAL	3.6	91.0	
635.7	CARBONDALE		UNDERCLAY	1.4	94.6	

MAPID: 05786299000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.097658

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.673011

DATE COLLECTED: 11 / 12 / 1979

SURFACE ELEVATION (FT.): 729.0 LOGGED (FT.): 97.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28683

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.0	PLEISTOCENE		CLAY	24.0	0.0	YELLOW
705.0	PLEISTOCENE		CLAY	54.0	24.0	GRAY
651.0	CARBONDALE		DARK SHALE	11.0	78.0	
640.0	CARBONDALE	ST. DAVID	LIMESTONE	0.4	89.0	
639.6	CARBONDALE	TURNER MINE	DARK SHALE	1.6	89.4	
638.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	91.0	
636.9	CARBONDALE	SPRINGFIELD	COAL	3.7	92.1	
633.2	CARBONDALE		UNDERCLAY	1.2	95.8	

MAPID: 05786300000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.097255

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672994

DATE COLLECTED: 11 / 13 / 1979

SURFACE ELEVATION (FT.): 729.9 LOGGED (FT.): 100.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28684

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
729.9	PLEISTOCENE		CLAY	26.0	0.0	YELLOW
703.9	PLEISTOCENE		CLAY	64.0	26.0	GRAY
639.9	CARBONDALE		DARK SHALE	1.0	90.0	
638.9	CARBONDALE	ST. DAVID	LIMESTONE	0.6	91.0	
638.3	CARBONDALE	TURNER MINE	DARK SHALE	2.3	91.6	
636.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	93.9	
634.9	CARBONDALE	SPRINGFIELD	COAL	3.5	95.0	
631.4	CARBONDALE		UNDERCLAY	1.5	98.5	

MAPID: 05786301000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096881

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672858

DATE COLLECTED: 11 / 13 / 1979

SURFACE ELEVATION (FT.): 732.8 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28685

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
732.8	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
704.8	PLEISTOCENE		CLAY	68.3	28.0	GRAY
636.5	CARBONDALE	TURNER MINE	DARK SHALE	1.7	96.3	
634.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	98.0	
633.4	CARBONDALE	SPRINGFIELD	COAL	3.7	99.4	
629.7	CARBONDALE		UNDERCLAY	1.9	103.1	

MAPID: 05786302000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.096883

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671834

DATE COLLECTED: 11 / 13 / 1979

SURFACE ELEVATION (FT.): 734.8 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28686

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
734.8	PLEISTOCENE		CLAY	32.0	0.0	YELLOW
702.8	PLEISTOCENE		CLAY	83.0	32.0	GRAY

MAPID: 05786303000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.097295

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.672097

DATE COLLECTED: 11 / 13 / 1979

SURFACE ELEVATION (FT.): 733.2 LOGGED (FT.): 103.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28687

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.2	PLEISTOCENE		CLAY	29.0	0.0	YELLOW
704.2	PLEISTOCENE		CLAY	54.5	29.0	GRAY
649.7	CARBONDALE		DARK SHALE	11.5	83.5	
638.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	95.0	
637.8	CARBONDALE	TURNER MINE	DARK SHALE	1.6	95.4	
636.2	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	97.0	
635.3	CARBONDALE	SPRINGFIELD	COAL	3.7	97.9	
631.6	CARBONDALE		UNDERCLAY	1.4	101.6	

MAPID: 05786304000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.097349

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671716

DATE COLLECTED: 11 / 14 / 1979

SURFACE ELEVATION (FT.): 733.4 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28688

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.4	PLEISTOCENE		CLAY	28.0	0.0	
705.4	PLEISTOCENE		CLAY & GRAVEL	87.0	28.0	

MAPID: 05786305000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.097702 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671863 DATE COLLECTED: 11 / 14 / 1979

SURFACE ELEVATION (FT.): 730.7 LOGGED (FT.): 103.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28689 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.7	PLEISTOCENE		CLAY	29.0	0.0	YELLOW
701.7	PLEISTOCENE		CLAY	53.5	29.0	GRAY
648.2	CARBONDALE		DARK SHALE	11.3	82.5	
636.9	CARBONDALE	ST. DAVID	LIMESTONE	0.4	93.8	
636.5	CARBONDALE	TURNER MINE	DARK SHALE	2.2	94.2	
634.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	96.4	
633.3	CARBONDALE	SPRINGFIELD	COAL	3.8	97.4	
629.5	CARBONDALE		UNDERCLAY	1.8	101.2	

MAPID: 05786306000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098073 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671654 DATE COLLECTED: 11 / 14 / 1979

SURFACE ELEVATION (FT.): 731.9 LOGGED (FT.): 115.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28690 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.9	PLEISTOCENE		CLAY	29.0	0.0	
702.9	PLEISTOCENE		CLAY & GRAVEL	86.0	29.0	

MAPID: 05786307000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.097931

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671537

DATE COLLECTED: 11 / 15 / 1979

SURFACE ELEVATION (FT.): 732.0 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28692

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
732.0	PLEISTOCENE		CLAY	27.0	0.0
705.0	PLEISTOCENE		CLAY & GRAVEL	69.7	27.0
635.3	CARBONDALE	TURNER MINE	DARK SHALE	1.4	96.7
633.9	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	98.1
633.0	CARBONDALE	SPRINGFIELD	COAL	3.1	99.0
629.9	CARBONDALE		UNDERCLAY	2.9	102.1

MAPID: 05786308000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09771

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.671124

DATE COLLECTED: 11 / 15 / 1979

SURFACE ELEVATION (FT.): 732.7 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28693

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
732.7	PLEISTOCENE		CLAY	28.0	0.0
704.7	PLEISTOCENE		CLAY & GRAVEL	87.0	28.0

MAPID: 05786309000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.097998

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670893

DATE COLLECTED: 11 / 15 / 1979

SURFACE ELEVATION (FT.): 732.8 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28694

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
732.8	PLEISTOCENE		CLAY	27.0	0.0
705.8	PLEISTOCENE		CLAY & GRAVEL	88.0	27.0

MAPID: 0578631000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098419

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670971

DATE COLLECTED: 11 / 15 / 1979

SURFACE ELEVATION (FT.): 733.0 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28695

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.0	PLEISTOCENE		CLAY	27.0	0.0	
706.0	PLEISTOCENE		CLAY & GRAVEL	62.0	27.0	
644.0	CARBONDALE		DARK SHALE	6.5	89.0	
637.5	CARBONDALE	ST. DAVID	LIMESTONE	0.3	95.5	
637.2	CARBONDALE	TURNER MINE	DARK SHALE	1.7	95.8	
635.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	97.5	
634.6	CARBONDALE	SPRINGFIELD	COAL	3.9	98.4	
630.7	CARBONDALE		UNDERCLAY	2.7	102.3	

MAPID: 05786311000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098365

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670646

DATE COLLECTED: 11 / 19 / 1979

SURFACE ELEVATION (FT.): 733.3 LOGGED (FT.): 103.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28696

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.3	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
705.3	PLEISTOCENE		CLAY	68.0	28.0	GRAY
637.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	96.0	
636.1	CARBONDALE	SPRINGFIELD	COAL	3.3	97.2	
632.8	CARBONDALE		UNDERCLAY	2.5	100.5	

MAPID: 05786312000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098085

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670529

DATE COLLECTED: 11 / 19 / 1979

SURFACE ELEVATION (FT.): 733.1 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28697

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.1	PLEISTOCENE		CLAY	25.0	0.0	YELLOW
708.1	PLEISTOCENE		CLAY	90.0	25.0	GRAY

MAPID: 05786313000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098522

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670273

DATE COLLECTED: 11 / 19 / 1979

SURFACE ELEVATION (FT.): 733.1 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28698

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.1	PLEISTOCENE		CLAY	26.0	0.0	YELLOW
707.1	PLEISTOCENE		CLAY	89.0	26.0	GRAY

MAPID: 05786314000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098827

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670401

DATE COLLECTED: 11 / 19 / 1979

SURFACE ELEVATION (FT.): 733.8 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28699

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.8	PLEISTOCENE		CLAY	26.0	0.0	
707.8	PLEISTOCENE		CLAY & GRAVEL	89.0	26.0	

MAPID: 05786315000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098865

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670643

DATE COLLECTED: 11 / 20 / 1979

SURFACE ELEVATION (FT.): 733.4 LOGGED (FT.): 103.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28700

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.4	PLEISTOCENE		CLAY	24.0	0.0	
709.4	PLEISTOCENE		CLAY & GRAVEL	71.5	24.0	
637.9	CARBONDALE	TURNER MINE	SHALE	2.3	95.5	
635.6	CARBONDALE	SPRINGFIELD	COAL	3.4	97.8	
632.2	CARBONDALE		UNDERCLAY	1.8	101.2	

MAPID: 05786316000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09916 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670347 DATE COLLECTED: 11 / 20 / 1979

SURFACE ELEVATION (FT.): 733.9 LOGGED (FT.): 103.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28701 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.9	PLEISTOCENE		SOIL	28.0	0.0	
705.9	PLEISTOCENE		CLAY & GRAVEL	67.0	28.0	
638.9	CARBONDALE	TURNER MINE	SHALE	2.7	95.0	
636.2	CARBONDALE	SPRINGFIELD	COAL	3.0	97.7	
633.2	CARBONDALE		UNDERCLAY	2.3	100.7	

MAPID: 05786318000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099368 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670037 DATE COLLECTED: 11 / 20 / 1979

SURFACE ELEVATION (FT.): 734.0 LOGGED (FT.): 105.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28703 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.0	PLEISTOCENE		SOIL	26.0	0.0	
708.0	PLEISTOCENE		CLAY & GRAVEL	5.3	26.0	YELLOW
702.7	PLEISTOCENE		CLAY & GRAVEL	73.7	31.3	GRAY

MAPID: 05786320000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099597 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669771 DATE COLLECTED: 11 / 28 / 1979

SURFACE ELEVATION (FT.): 733.1 LOGGED (FT.): 105.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28705 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.1	PLEISTOCENE		CLAY	25.0	0.0	
708.1	PLEISTOCENE		CLAY & GRAVEL	80.0	25.0	

MAPID: 05786321000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099899

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669904

DATE COLLECTED: 11 / 28 / 1979

SURFACE ELEVATION (FT.): 733.6 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28706

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.6	PLEISTOCENE		CLAY	28.0	0.0	
705.6	PLEISTOCENE		CLAY & GRAVEL	82.0	28.0	

MAPID: 05786322000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099977

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670161

DATE COLLECTED: 11 / 29 / 1979

SURFACE ELEVATION (FT.): 734.6 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28707

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.6	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
706.6	PLEISTOCENE		CLAY	64.0	28.0	GRAY
642.6	CARBONDALE		DARK SHALE	3.5	92.0	
639.1	CARBONDALE	ST. DAVID	LIMESTONE	0.4	95.5	
638.7	CARBONDALE	TURNER MINE	DARK SHALE	1.6	95.9	
637.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	97.5	
635.9	CARBONDALE	SPRINGFIELD	COAL	3.6	98.7	
632.3	CARBONDALE		UNDERCLAY	2.7	102.3	

MAPID: 05786323000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100299

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670029

DATE COLLECTED: 11 / 30 / 1979

SURFACE ELEVATION (FT.): 734.0 LOGGED (FT.): 110.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28708

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.0	PLEISTOCENE		CLAY	29.0	0.0	YELLOW
705.0	PLEISTOCENE		CLAY	81.0	29.0	GRAY

MAPID: 05786324000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100374

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670324

DATE COLLECTED: 11 / 30 / 1979

SURFACE ELEVATION (FT.): 734.7 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28709

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.7	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
706.7	PLEISTOCENE		CLAY	72.5	28.0	GRAY
634.2	CARBONDALE	SPRINGFIELD	COAL	1.3	100.5	TOP ERODED
632.9	CARBONDALE		SHALE/UNDERCLAY	3.2	101.8	

MAPID: 05786325000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100111

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670483

DATE COLLECTED: 11 / 30 / 1979

SURFACE ELEVATION (FT.): 734.6 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28710

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.6	PLEISTOCENE		CLAY	27.0	0.0	YELLOW
707.6	PLEISTOCENE		CLAY	61.5	27.0	GRAY
646.1	CARBONDALE		DARK SHALE	6.6	88.5	
639.5	CARBONDALE	ST. DAVID	LIMESTONE	0.5	95.1	
639.0	CARBONDALE	TURNER MINE	DARK SHALE	1.9	95.6	
637.1	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	97.5	
635.8	CARBONDALE	SPRINGFIELD	COAL	3.7	98.8	
632.1	CARBONDALE		UNDERCLAY	2.5	102.5	

MAPID: 05786326000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.100477 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.670597 DATE COLLECTED: 11 / 30 / 1979

SURFACE ELEVATION (FT.): 733.7 LOGGED (FT.): 105.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28711 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.7	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
705.7	PLEISTOCENE		CLAY	55.5	28.0	GRAY
650.2	CARBONDALE		DARK SHALE	11.5	83.5	
638.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	95.0	
638.3	CARBONDALE	TURNER MINE	DARK SHALE	1.7	95.4	
636.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	97.1	
635.3	CARBONDALE	SPRINGFIELD	COAL	3.6	98.4	
631.7	CARBONDALE		SHALE/UNDERCLAY	3.0	102.0	

MAPID: 05786329000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09792 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669443 DATE COLLECTED: 12 / 3 / 1979

SURFACE ELEVATION (FT.): 735.2 LOGGED (FT.): 112.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28714 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.2	PLEISTOCENE		CLAY	32.0	0.0	YELLOW
703.2	PLEISTOCENE		CLAY	76.3	32.0	GRAY
626.9	CARBONDALE		GRAY SHALE	3.7	108.3	

MAPID: 05786330000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.097391

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66939

DATE COLLECTED: 12 / 4 / 1979

SURFACE ELEVATION (FT.): 734.5 LOGGED (FT.): 106.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28715

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.5	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
706.5	PLEISTOCENE		CLAY	54.0	28.0	GRAY
652.5	CARBONDALE		GRAY SHALE	6.5	82.0	
646.0	CARBONDALE		DARK SHALE	8.9	88.5	
637.1	CARBONDALE	ST. DAVID	LIMESTONE	0.6	97.4	
636.5	CARBONDALE	TURNER MINE	DARK SHALE	1.6	98.0	
634.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	99.6	
633.8	CARBONDALE	SPRINGFIELD	COAL	3.8	100.7	
630.0	CARBONDALE		UNDERCLAY	1.5	104.5	

MAPID: 05786331000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09783

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669093

DATE COLLECTED: 12 / 4 / 1979

SURFACE ELEVATION (FT.): 734.5 LOGGED (FT.): 107.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28716

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.5	PLEISTOCENE		CLAY	27.0	0.0	YELLOW
707.5	PLEISTOCENE		CLAY	52.0	27.0	GRAY
655.5	CARBONDALE		GRAY SHALE	10.1	79.0	
645.4	CARBONDALE		DARK SHALE	9.2	89.1	
636.2	CARBONDALE	ST. DAVID	LIMESTONE	0.4	98.3	
635.8	CARBONDALE	TURNER MINE	DARK SHALE	1.8	98.7	
634.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	100.5	
633.1	CARBONDALE	SPRINGFIELD	COAL	3.7	101.4	
629.4	CARBONDALE		UNDERCLAY	1.9	105.1	

MAPID: 05786332000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098265

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669096

DATE COLLECTED: 12 / 4 / 1979

SURFACE ELEVATION (FT.): 733.8 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28717

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.8	PLEISTOCENE		CLAY	26.0	0.0	
707.8	PLEISTOCENE		CLAY	71.0	26.0	
636.8	CARBONDALE	ST. DAVID	LIMESTONE	0.4	97.0	
636.4	CARBONDALE	TURNER MINE	DARK SHALE	1.5	97.4	
634.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	98.9	
633.6	CARBONDALE	SPRINGFIELD	COAL	3.7	100.2	
629.9	CARBONDALE		UNDERCLAY	1.1	103.9	

MAPID: 05786333000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098566

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.669144

DATE COLLECTED: 12 / 4 / 1979

SURFACE ELEVATION (FT.): 733.4 LOGGED (FT.): 112.0

LOG TYPE: Sonic Log

SOURCE: MIDLAND COAL CO. FARMEAST 28718

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
733.4	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
705.4	PLEISTOCENE		CLAY	79.5	28.0	GRAY
625.9	CARBONDALE		MICACEOUS SHALE	4.5	107.5	

MAPID: 05786334000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098643

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.668854

DATE COLLECTED: 12 / 5 / 1979

SURFACE ELEVATION (FT.): 734.2 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28719

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.2	PLEISTOCENE		CLAY	25.0	0.0	YELLOW
709.2	PLEISTOCENE		CLAY	64.2	25.0	GRAY
645.0	CARBONDALE		DARK SHALE	6.2	89.2	
638.8	CARBONDALE	ST. DAVID	LIMESTONE	0.6	95.4	
638.2	CARBONDALE	TURNER MINE	DARK SHALE	1.7	96.0	
636.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	97.7	
635.3	CARBONDALE	SPRINGFIELD	COAL	3.7	98.9	
631.6	CARBONDALE		UNDERCLAY	2.4	102.6	

MAPID: 05786335000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098994

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.668794

DATE COLLECTED: 12 / 5 / 1979

SURFACE ELEVATION (FT.): 735.3 LOGGED (FT.): 108.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28720

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.3	PLEISTOCENE		CLAY	28.0	0.0	
707.3	PLEISTOCENE		CLAY & GRAVEL	80.0	28.0	

MAPID: 05786336000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.098901

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.668425

DATE COLLECTED: 12 / 5 / 1979

SURFACE ELEVATION (FT.): 734.8 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28721

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.8	PLEISTOCENE		CLAY	30.0	0.0	YELLOW
704.8	PLEISTOCENE		CLAY	52.5	30.0	GRAY
652.3	CARBONDALE		GRAY SHALE	6.5	82.5	
645.8	CARBONDALE		DARK SHALE	6.0	89.0	
639.8	CARBONDALE	ST. DAVID	LIMESTONE	0.6	95.0	
639.2	CARBONDALE	TURNER MINE	DARK SHALE	1.7	95.6	
637.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	97.3	
636.3	CARBONDALE	SPRINGFIELD	COAL	3.6	98.5	
632.7	CARBONDALE		UNDERCLAY	2.9	102.1	

MAPID: 05786337000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.099823

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667874

DATE COLLECTED: 12 / 5 / 1979

SURFACE ELEVATION (FT.): 735.0 LOGGED (FT.): 105.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28722

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.0	PLEISTOCENE		CLAY	37.0	0.0	YELLOW
698.0	PLEISTOCENE		CLAY	45.5	37.0	GRAY
652.5	CARBONDALE		GRAY SHALE	2.5	82.5	
650.0	CARBONDALE		DARK SHALE	8.4	85.0	
641.6	CARBONDALE	ST. DAVID	LIMESTONE	0.4	93.4	
641.2	CARBONDALE	TURNER MINE	DARK SHALE	1.6	93.8	
639.6	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	95.4	
638.5	CARBONDALE	SPRINGFIELD	COAL	3.3	96.5	
635.2	CARBONDALE		SHALE/UNDERCLAY	5.2	99.8	

MAPID: 05786338000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.09979 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.668225 DATE COLLECTED: 12 / 6 / 1979

SURFACE ELEVATION (FT.): 735.5 LOGGED (FT.): 110.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28723 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
735.5	PLEISTOCENE		CLAY	43.0	0.0	YELLOW
692.5	PLEISTOCENE		CLAY	67.0	43.0	GRAY

MAPID: 05786339000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 19 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.10024 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667897 DATE COLLECTED: 12 / 6 / 1979

SURFACE ELEVATION (FT.): 734.2 LOGGED (FT.): 105.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 28724 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO. MAP 29

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
734.2	PLEISTOCENE		CLAY	28.0	0.0	YELLOW
706.2	PLEISTOCENE		CLAY	73.4	28.0	GRAY
632.8	CARBONDALE	SPRINGFIELD	COAL	0.7	101.4	TOP ERODED
632.1	CARBONDALE		UNDERCLAY	2.9	102.1	

MAPID: 05785981000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 20 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.072052

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.665304

DATE COLLECTED: 6 / 13 / 1975

SURFACE ELEVATION (FT.): 745.2 LOGGED (FT.): 131.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23192

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.2	PLEISTOCENE		SOIL	1.0	0.0	
744.2	PLEISTOCENE		CLAY	21.0	1.0	
723.2	MODESTO		GRAY SHALE	3.3	22.0	
719.9	CARBONDALE	DANVILLE	COAL	1.3	25.3	
718.6	CARBONDALE		UNDERCLAY	1.8	26.6	
716.8	CARBONDALE		GRAY SHALE	7.6	28.4	
709.2	CARBONDALE		SANDSTONE	16.0	36.0	
693.2	CARBONDALE		GRAY SHALE	9.0	52.0	
684.2	CARBONDALE		DARK SHALE	1.0	61.0	
683.2	CARBONDALE	BRERETON	LIMESTONE	1.0	62.0	
682.2	CARBONDALE		CLAYSTONE	0.7	63.0	WHITE TOP
681.5	CARBONDALE	HERRIN	COAL	2.3	63.7	
679.2	CARBONDALE	HERRIN	BLUE BAND	0.2	66.0	
679.0	CARBONDALE	HERRIN	COAL	1.2	66.2	
677.8	CARBONDALE		UNDERCLAY	1.8	67.4	
676.0	CARBONDALE		GRAY SHALE	8.8	69.2	
667.2	CARBONDALE		SANDSTONE	33.0	78.0	
634.2	CARBONDALE		DARK SHALE	11.0	111.0	
623.2	CARBONDALE		LIMESTONE	0.3	122.0	
622.9	CARBONDALE		BLACK SHALE	1.6	122.3	
621.3	CARBONDALE		BLACK SHALE	0.7	123.9	
620.6	CARBONDALE	SPRINGFIELD	COAL	4.3	124.6	
616.3	CARBONDALE		UNDERCLAY	2.1	128.9	

MAPID: 05785982000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 20 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.071266

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.665744

DATE COLLECTED: 6 / 13 / 1975

SURFACE ELEVATION (FT.): 745.9 LOGGED (FT.): 71.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23193

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
745.9	PLEISTOCENE		SOIL	1.0	0.0	
744.9	PLEISTOCENE		CLAY	23.0	1.0	
721.9	MODESTO		BLACK SHALE	2.0	24.0	
719.9	CARBONDALE	DANVILLE	COAL	0.8	26.0	
719.1	CARBONDALE		UNDERCLAY	1.5	26.8	
717.6	CARBONDALE		GRAY SHALE	10.7	28.3	
706.9	CARBONDALE		SANDSTONE	5.0	39.0	
701.9	CARBONDALE		GRAY SHALE	17.0	44.0	
684.9	CARBONDALE		DARK SHALE	2.3	61.0	
682.6	CARBONDALE	BRERETON	LIMESTONE	1.2	63.3	
681.4	CARBONDALE		CLAYSTONE	0.3	64.5	WHITE TOP
681.1	CARBONDALE	HERRIN	COAL	2.1	64.8	
679.0	CARBONDALE	HERRIN	BLUE BAND	0.2	66.9	
678.8	CARBONDALE	HERRIN	COAL	1.5	67.1	
677.3	CARBONDALE		UNDERCLAY	2.4	68.6	

MAPID: 05785983000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 20 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.068706

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.666448

DATE COLLECTED: 6 / 16 / 1975

SURFACE ELEVATION (FT.): 742.2 LOGGED (FT.): 66.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23195

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
742.2	PLEISTOCENE		SOIL	1.0	0.0	
741.2	PLEISTOCENE		CLAY	17.0	1.0	
724.2	PLEISTOCENE		BOULDER	0.8	18.0	
723.4	PLEISTOCENE		CLAY	6.2	18.8	YELLOW
717.2	PLEISTOCENE		CLAY	11.0	25.0	GRAY
706.2	SHELBURN		GRAY SHALE	23.7	36.0	
682.5	SHELBURN		SANDSTONE	1.5	59.7	
681.0	CARBONDALE	HERRIN	COAL	1.3	61.2	
679.7	CARBONDALE	HERRIN	BLUE BAND	0.2	62.5	
679.5	CARBONDALE	HERRIN	COAL	1.2	62.7	
678.3	CARBONDALE		UNDERCLAY	2.1	63.9	

MAPID: 05785984000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 20 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.067129

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667184

DATE COLLECTED: 6 / 16 / 1975

SURFACE ELEVATION (FT.): 739.9 LOGGED (FT.): 128.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23196

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
739.9	PLEISTOCENE		SOIL	1.0	0.0
738.9	PLEISTOCENE		CLAY	24.0	1.0
714.9	PLEISTOCENE		CLAY & GRAVEL	59.0	25.0
655.9	CARBONDALE		GRAY SHALE	14.0	84.0
641.9	CARBONDALE		DARK SHALE	21.4	98.0
620.5	CARBONDALE	ST. DAVID	LIMESTONE	0.5	119.4
620.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	119.9
618.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	121.5
617.5	CARBONDALE	SPRINGFIELD	COAL	3.6	122.4
613.9	CARBONDALE		UNDERCLAY	2.0	126.0

MAPID: 05785985000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 20 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.071671

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.667392

DATE COLLECTED: 6 / 18 / 1975

SURFACE ELEVATION (FT.): 740.8 LOGGED (FT.): 129.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23199

WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
740.8	PLEISTOCENE		SOIL	1.0	0.0	
739.8	PLEISTOCENE		CLAY	21.2	1.0	
718.6	SHELBURN	DANVILLE	COAL	1.6	22.2	TOP ERODED
717.0	SHELBURN		UNDERCLAY	1.5	23.8	
715.5	SHELBURN		GRAY SHALE	9.7	25.3	
705.8	SHELBURN		SANDSTONE	13.0	35.0	
692.8	SHELBURN		GRAY SHALE	8.0	48.0	
684.8	SHELBURN		DARK SHALE	3.4	56.0	
681.4	CARBONDALE		CLAYSTONE	0.5	59.4	WHITE TOP
680.9	CARBONDALE	HERRIN	COAL	2.2	59.9	
678.7	CARBONDALE	HERRIN	BLUE BAND	0.2	62.1	
678.5	CARBONDALE	HERRIN	COAL	1.5	62.3	
677.0	CARBONDALE		UNDERCLAY	1.8	63.8	
675.2	CARBONDALE		GRAY SHALE	2.4	65.6	
672.8	CARBONDALE		SANDSTONE	7.0	68.0	
665.8	CARBONDALE		CALCAREOUS SHALE	20.0	75.0	
645.8	CARBONDALE		DARK SHALE	25.0	95.0	
620.8	CARBONDALE	ST. DAVID	LIMESTONE	0.5	120.0	
620.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.9	120.5	
618.4	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	122.4	
617.5	CARBONDALE	SPRINGFIELD	COAL	3.6	123.3	
613.9	CARBONDALE		UNDERCLAY	2.1	126.9	

MAPID: 05785992000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 20 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.07186

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.66834

DATE COLLECTED: 6 / 18 / 1975

SURFACE ELEVATION (FT.): 738.7 LOGGED (FT.): 64.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23400

WELL TYPE: Coal Test

COMMENT: LOCATIONS; DIG. FROM CO AMP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
738.7	PLEISTOCENE		SOIL	1.0	0.0
737.7	PLEISTOCENE		CLAY	24.0	1.0
713.7	SHELBURN		GRAY SHALE	6.0	25.0
707.7	SHELBURN		SANDSTONE	10.0	31.0
697.7	SHELBURN		CALCAREOUS SHALE	17.3	41.0
680.4	CARBONDALE	HERRIN	COAL	2.1	58.3
678.3	CARBONDALE	HERRIN	BLUE BAND	0.2	60.4
678.1	CARBONDALE	HERRIN	COAL	1.5	60.6
676.6	CARBONDALE		UNDERCLAY	1.9	62.1

MAPID: 05785995000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 20 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.071457 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.666554 DATE COLLECTED: 6 / 20 / 1975

SURFACE ELEVATION (FT.): 744.2 LOGGED (FT.): 128.0 LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMEAST 23405 WELL TYPE: Coal Test

COMMENT: LOCATIONS DIG. FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
744.2	PLEISTOCENE		SOIL	1.0	0.0	
743.2	PLEISTOCENE		CLAY	21.0	1.0	
722.2	CARBONDALE	DANVILLE	COAL	1.6	22.0	TOP ERODED
720.6	CARBONDALE		UNDERCLAY	1.4	23.6	
719.2	CARBONDALE		GRAY SHALE	9.8	25.0	
709.4	CARBONDALE		SANDSTONE	8.2	34.8	
701.2	CARBONDALE		GRAY SHALE	15.8	43.0	
685.4	CARBONDALE	BRERETON	LIMESTONE	0.4	58.8	
685.0	CARBONDALE	ANNA	BLACK SHALE	0.7	59.2	
684.3	CARBONDALE	HERRIN	COAL	1.4	59.9	
682.9	CARBONDALE	HERRIN	BLUE BAND	0.2	61.3	
682.7	CARBONDALE	HERRIN	COAL	1.4	61.5	
681.3	CARBONDALE		UNDERCLAY	2.1	62.9	
679.2	CARBONDALE		GRAY SHALE	2.0	65.0	
677.2	CARBONDALE		SANDSTONE	22.0	67.0	
655.2	CARBONDALE		GRAY SHALE	8.0	89.0	
647.2	CARBONDALE		CALCAREOUS SHALE	22.0	97.0	
625.2	CARBONDALE	ST. DAVID	LIMESTONE	0.7	119.0	
624.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	119.7	
622.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	121.7	
621.7	CARBONDALE	SPRINGFIELD	COAL	3.5	122.5	
618.2	CARBONDALE		UNDERCLAY	2.0	126.0	

MAPID: 05785996000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 21 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.065079 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 40.668135 DATE COLLECTED: 7 / 1 / 1975
 SURFACE ELEVATION (FT.): 745.1 LOGGED (FT.): 137.0 LOG TYPE: Drillers Log
 SOURCE: MIDLAND COAL CO. FARMEAST 23419 WELL TYPE: Coal Test
 COMMENT: LOCATIONS DIG.FROM CO MAP 27

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
745.1	PLEISTOCENE		SOIL	1.0	0.0
744.1	PLEISTOCENE		CLAY	27.0	1.0
717.1	PLEISTOCENE		CLAY & GRAVEL	42.0	28.0
675.1	CARBONDALE		SANDSTONE	1.6	70.0
673.5	CARBONDALE		GRAY SHALE	11.4	71.6
662.1	CARBONDALE		LIMESTONE	2.0	83.0
660.1	CARBONDALE		SANDSTONE	8.0	85.0
652.1	CARBONDALE		GRAY SHALE	19.0	93.0
633.1	CARBONDALE		DARK SHALE	16.0	112.0
617.1	CARBONDALE	ST. DAVID	LIMESTONE	0.6	128.0
616.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	128.6
614.7	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	130.4
613.9	CARBONDALE	SPRINGFIELD	COAL	3.6	131.2
610.3	CARBONDALE		UNDERCLAY	2.2	134.8

MAPID: 05700832000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 26 QUARTERS/FOOTAGES: 200' S line, 312' E line of NE SW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.018071 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.644348 DATE COLLECTED: 12 / 10 / 1919
 SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 141.0 LOG TYPE: Drillers Log
 SOURCE: ALDEN COAL CO. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.0			UNCONSOLIDATED	32.7	0.0
647.3	CARBONDALE		SHALE	33.5	32.7
613.8	CARBONDALE		SANDSTONE	5.3	66.2
608.6	CARBONDALE	HERRIN	COAL	4.3	71.4
604.3	CARBONDALE		UNDERCLAY	6.8	75.7
597.5	CARBONDALE		LIMESTONE	23.0	82.5
574.5	CARBONDALE		SHALE	27.8	105.5 GY.FIS
546.7	CARBONDALE	ST. DAVID	LIMESTONE	1.2	133.3 "CAP ROCK"
545.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	134.5 FISSILE
543.7	CARBONDALE	SPRINGFIELD	COAL	4.3	136.3
539.5	CARBONDALE		UNDERCLAY	0.5	140.5

MAPID: 05701043000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 26 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.007167 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.651069 DATE COLLECTED: 9 / 21 / 1955

SURFACE ELEVATION (FT.): 750.0 LOGGED (FT.): 146.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.0			UNCONSOLIDATED	21.0	0.0	
729.0	CARBONDALE		ROCK	92.0	21.0	"HARD PAN"
637.0	CARBONDALE		SHALE	20.8	113.0	SS STKS
616.2	CARBONDALE	HERRIN	COAL	4.1	133.8	
612.1	CARBONDALE		UNDERCLAY	1.5	137.9	
610.6	CARBONDALE		SANDY SHALE	6.6	139.4	

MAPID: 05786654000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 26 QUARTERS/FOOTAGES: 0' S line, 0' E line of NE NE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.007167 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.651069 DATE COLLECTED: 9 / 21 / 1955

SURFACE ELEVATION (FT.): 750.0 LOGGED (FT.): 146.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A367 WELL TYPE: Coal Test

COMMENT: NORRIS FIELD BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.0	PLEISTOCENE		CLAY	21.0	0.0	
729.0	PLEISTOCENE		CLAY	92.0	21.0	
637.0	SHELBURN		SHALE & SANDSTONE	20.8	113.0	
616.2	CARBONDALE	HERRIN	COAL	4.1	133.8	GOOD
612.1	CARBONDALE		UNDERCLAY	1.5	137.9	
610.6	CARBONDALE		SANDY SHALE	6.6	139.4	HARD

MAPID: 05700833000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 27 QUARTERS/FOOTAGES: 1000' N line, 1' W line of SW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.045509 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.644637 DATE COLLECTED: 9 / 29 / 1911

SURFACE ELEVATION (FT.): 761.0 LOGGED (FT.): 195.7 LOG TYPE: Measured section

SOURCE: ALDEN COAL CO. WELL TYPE: Underground mine

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
761.0			UNCONSOLIDATED	28.0	0.0	
733.0	MODESTO	FARMINGTON	SHALE	44.0	28.0	
689.0	MODESTO		BLACK SHALE	3.0	72.0	BS MODESTO; BK; FIS
686.0	CARBONDALE	DANVILLE	COAL	1.5	75.0	
684.5	CARBONDALE		UNDERCLAY	12.0	76.5	
672.5	CARBONDALE		SANDSTONE	5.0	88.5	
667.5	CARBONDALE		SANDY SHALE	19.0	93.5	
648.5	CARBONDALE	BRERETON	LIMESTONE	3.5	112.5	
645.0	CARBONDALE	HERRIN	COAL	4.7	116.0	
640.3	CARBONDALE		UNDERCLAY	3.0	120.7	
637.3	CARBONDALE		LIMESTONE	8.0	123.7	
629.3	CARBONDALE		SHALE	2.0	131.7	CALC
627.3	CARBONDALE		SANDY SHALE	30.0	133.7	
597.3	CARBONDALE		BLACK SHALE	4.0	163.7	
593.3	CARBONDALE		SHALE	4.0	167.7	DARK
589.3	CARBONDALE	ST. DAVID	LIMESTONE	1.5	171.7	"CAP ROCK"
587.8	CARBONDALE	TURNER MINE	BLACK SHALE	3.5	173.2	FISSILE
584.3	CARBONDALE	SPRINGFIELD	COAL	4.0	176.7	
580.3	CARBONDALE		UNDERCLAY	2.0	180.7	
578.3	CARBONDALE		LIMESTONE	2.0	182.7	
576.3	CARBONDALE		SHALE	1.5	184.7	
574.8	CARBONDALE		LIMESTONE	1.5	186.2	BLUE
573.3	CARBONDALE		SHALE	1.5	187.7	
571.8	CARBONDALE		LIMESTONE	2.5	189.2	BLUE
569.3	CARBONDALE		SHALE	4.0	191.7	

MAPID: 05700833000C VERSION: 2

PROJECT: NCRDS87

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 27 QUARTERS/FOOTAGES: 1000' N line, 1' W line of SW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.045509 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 40.644637 DATE COLLECTED:

SURFACE ELEVATION (FT.): 764.0 LOGGED (FT.): 195.7 LOG TYPE: Drillers Log

SOURCE: ALDEN WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
764.0			UNCONSOLIDATED	28.0	0.0	
736.0			UNCLASSIFIED	45.0	28.0	
691.0			BLACK SHALE	2.0	73.0	
689.0	CARBONDALE	DANVILLE	COAL	1.5	75.0	UNCERTAIN CORRELATION
687.5	CARBONDALE		UNDERCLAY	12.0	76.5	
675.5	CARBONDALE		SANDSTONE	5.0	88.5	
670.5	CARBONDALE		UNCLASSIFIED	19.0	93.5	
651.5	CARBONDALE		LIMESTONE	3.5	112.5	
648.0	CARBONDALE	HERRIN	COAL	4.7	116.0	
643.3	CARBONDALE		UNDERCLAY	3.0	120.7	
640.3	CARBONDALE		LIMESTONE	8.0	123.7	
632.3	CARBONDALE		UNCLASSIFIED	32.0	131.7	
600.3	CARBONDALE		BLACK SHALE	4.0	163.7	
596.3	CARBONDALE		DARK SHALE	4.0	167.7	
592.3	CARBONDALE		LIMESTONE	1.5	171.7	
590.8	CARBONDALE	TURNER MINE	BLACK SHALE	3.5	173.2	
587.3	CARBONDALE	SPRINGFIELD	COAL	4.0	176.7	
583.3	CARBONDALE		UNDERCLAY	2.0	180.7	
581.3	CARBONDALE		LIMESTONE	2.0	182.7	
579.3	CARBONDALE		SHALE	1.5	184.7	
577.8	CARBONDALE		LIMESTONE	1.5	186.2	
576.3	CARBONDALE		SHALE	1.5	187.7	
574.8	CARBONDALE		LIMESTONE	2.5	189.2	
572.3	CARBONDALE		SHALE	4.0	191.7	

MAPID: 05700834000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 27 QUARTERS/FOOTAGES: 440' S line, 450' W line of NW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.043751 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.64861 DATE COLLECTED: 9 / 29 / 1911

SURFACE ELEVATION (FT.): 762.0 LOGGED (FT.): 193.4 LOG TYPE: Drillers Log

SOURCE: ALDEN COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
762.0			UNCONSOLIDATED	47.0	0.0	
715.0	MODESTO	FARMINGTON	SHALE	39.0	47.0	BS MODESTO
676.0	CARBONDALE	DANVILLE	COAL	1.2	86.0	
674.8	CARBONDALE		SHALE	11.7	87.2	WH
663.2	CARBONDALE		SANDY SHALE	19.8	98.8	
643.3	CARBONDALE		SHALE	1.3	118.7	DARK
642.0	CARBONDALE	BRERETON	LIMESTONE	5.7	120.0	
636.3	CARBONDALE	HERRIN	COAL	4.2	125.7	
632.2	CARBONDALE		UNDERCLAY	1.5	129.8	
630.7	CARBONDALE		LIMESTONE	32.3	131.3	
598.3	CARBONDALE		SHALE	21.6	163.7	GY,FIS
576.7	CARBONDALE	ST. DAVID	LIMESTONE	1.1	185.3	
575.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	186.3	FISSILE
573.4	CARBONDALE	SPRINGFIELD	COAL	4.3	188.6	
569.2	CARBONDALE		UNDERCLAY	0.6	192.8	

MAPID: 05700835000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 27 QUARTERS/FOOTAGES: 30' N line, 33' E line

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.026214 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.654562 DATE COLLECTED: 9 / 29 / 1911

SURFACE ELEVATION (FT.): 758.0 LOGGED (FT.): 194.0 LOG TYPE: Drillers Log

SOURCE: ALDEN COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
758.0			UNCONSOLIDATED	110.6	0.0	
647.4	CARBONDALE		SHALE	13.4	110.6	
634.0	CARBONDALE	BRERETON	LIMESTONE	4.7	124.0	
629.3	CARBONDALE	HERRIN	COAL	4.2	128.7	
625.2	CARBONDALE		UNDERCLAY	1.5	132.8	
623.7	CARBONDALE		LIMESTONE	32.3	134.3	
591.3	CARBONDALE		SHALE	20.2	166.7	GY,FIS
571.2	CARBONDALE	ST. DAVID	LIMESTONE	1.0	186.8	"CAP RODK"
570.2	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	187.8	FISSILE
568.4	CARBONDALE	SPRINGFIELD	COAL	4.3	189.6	
564.2	CARBONDALE		UNDERCLAY	0.2	193.8	

MAPID: 05700836000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 27 QUARTERS/FOOTAGES: 1020' S line, 1420' E line of SE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.0317 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.642967 DATE COLLECTED: 9 / 29 / 1911

SURFACE ELEVATION (FT.): 715.0 LOGGED (FT.): 136.9 LOG TYPE: Drillers Log

SOURCE: ALDEN COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
715.0			UNCONSOLIDATED	4.4	0.0	
710.6	MODESTO	FARMINGTON	SHALE	28.2	4.4	BS MODESTO
682.4	CARBONDALE	DANVILLE	COAL	1.2	32.6	
681.2	CARBONDALE		SHALE	15.7	33.8	WH
665.6	CARBONDALE		SANDY SHALE	18.0	49.4	
647.6	CARBONDALE	BRERETON	LIMESTONE	2.5	67.4	
645.1	CARBONDALE	HERRIN	COAL	4.6	69.9	
640.5	CARBONDALE		UNDERCLAY	1.3	74.5	
639.2	CARBONDALE		LIMESTONE	29.6	75.8	
609.6	CARBONDALE		SHALE	24.8	105.4	GY,FIS
584.8	CARBONDALE	ST. DAVID	LIMESTONE	0.8	130.2	"CAP ROCK"
584.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	131.0	FISSILE
582.5	CARBONDALE	SPRINGFIELD	COAL	4.3	132.5	
578.2			UNDERCLAY	0.1	136.8	

MAPID: 05701385000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 27 QUARTERS/FOOTAGES: 200' N line, 400' W line of SE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.034472 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.646847 DATE COLLECTED: 8 / 0 / 1967

SURFACE ELEVATION (FT.): 750.0 LOGGED (FT.): 630.0 LOG TYPE: Drillers Log

SOURCE: NORTON WELL DRILLING WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.0			UNCONSOLIDATED	60.0	0.0	
690.0	MODESTO	FARMINGTON	SHALE	5.0	60.0	BS MODESTO; GY
685.0	CARBONDALE	DANVILLE	COAL WITH SHALE	3.0	65.0	INCL UNK AMT BK FIS SH
682.0	CARBONDALE		SHALE	38.0	68.0	GY,TAN
644.0	CARBONDALE		ROCK	2.0	106.0	DARK
642.0	CARBONDALE	HERRIN	COAL	4.0	108.0	
638.0	CARBONDALE		GRAY SHALE	2.0	112.0	
636.0	CARBONDALE		SANDSTONE	2.0	114.0	
634.0	CARBONDALE	ST. DAVID	LIMESTONE W/ SHALE	14.0	116.0	LS W/ SH STKS
620.0	CARBONDALE		GRAY SHALE	36.0	130.0	
584.0	CARBONDALE	SPRINGFIELD	COAL WITH SHALE	14.0	166.0	BK,FIS SH AND COAL
570.0	CARBONDALE		GRAY SHALE	20.0	180.0	
550.0	CARBONDALE		LIMESTONE AND SANDSTONE	12.0	200.0	
538.0	CARBONDALE		SHALE	63.0	212.0	GY TO DK GY
475.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	5.0	275.0	FISSILE
470.0	CARBONDALE	COLCHESTER	COAL	3.0	280.0	BASE OF CARBONDALE
467.0	SPOON		SHALE	5.0	283.0	LIGHT GRAY
462.0	SPOON		SANDSTONE	7.0	288.0	
455.0	SPOON		LIMESTONE W/ SHALE	10.0	295.0	
445.0	SPOON		GRAY SHALE	15.0	305.0	
430.0	SPOON		SANDSTONE/SHALE	10.0	320.0	
420.0	SPOON		BLACK SHALE	5.0	330.0	DK GY TO BK
415.0	SPOON		SANDSTONE/SHALE	5.0	335.0	
410.0	SPOON		DARK GRAY SHALE	20.0	340.0	
390.0	SPOON		SANDSTONE/SHALE	7.0	360.0	
383.0	SPOON	ROCK ISLAND	COAL	3.0	367.0	
380.0	SPOON		SHALE	10.0	370.0	BS SPOON; DK GY
370.0	ABBOTT		SANDSTONE/SHALE	10.0	380.0	
360.0	ABBOTT		LIMESTONE	5.0	390.0	TAN
355.0	ABBOTT		SHALE	20.0	395.0	LT GY, LS STKS
335.0	ABBOTT		SANDSTONE	10.0	415.0	CLR,QTZ,LG GRNS
325.0	ABBOTT		SHALE	15.0	425.0	DK GY TO TAN
310.0	ABBOTT		LIMESTONE	5.0	440.0	TAN
305.0	ABBOTT		SHALE	10.0	445.0	BS PENNSYLVANIAN; DK GY
295.0			ROCK	175.0	455.0	MISSISSIPPIAN

MAPID: 05700837000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 28 QUARTERS/FOOTAGES: 50' N line, 40' W line of SE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.054839 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.647298 DATE COLLECTED: 9 / 29 / 1911

SURFACE ELEVATION (FT.): 763.0 LOGGED (FT.): 185.8 LOG TYPE: Drillers Log

SOURCE: ALDEN COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
763.0			UNCONSOLIDATED	81.2	0.0	
681.8	CARBONDALE		GRAY SHALE	12.5	81.2	
669.3	CARBONDALE		SANDY SHALE	23.5	93.7	
645.8	CARBONDALE		SHALE	3.1	117.2	DARK
642.7	CARBONDALE	HERRIN	COAL	3.2	120.3	
639.6	CARBONDALE		UNDERCLAY	1.0	123.4	
638.6	CARBONDALE		LIMESTONE	35.6	124.4	
603.0	CARBONDALE		SHALE	18.3	160.0	GY,FIS
584.7	CARBONDALE	ST. DAVID	LIMESTONE	1.3	178.3	"CAP ROCK"
583.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	179.6	FISSILE
582.0	CARBONDALE	SPRINGFIELD	COAL	4.3	181.0	
577.7	CARBONDALE		UNDERCLAY	0.5	185.3	

MAPID: 05700838000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 28 QUARTERS/FOOTAGES: 35' N line, 27' E line of NE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.04528 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.654562 DATE COLLECTED: 9 / 29 / 1911

SURFACE ELEVATION (FT.): 772.0 LOGGED (FT.): 175.9 LOG TYPE: Drillers Log

SOURCE: ALDEN COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
772.0			UNCONSOLIDATED	32.0	0.0	
740.0	MODESTO	FARMINGTON	SHALE	38.6	32.0	BS MODESTO; GY
701.4	CARBONDALE	DANVILLE	COAL	0.8	70.6	
700.7	CARBONDALE		SHALE	8.0	71.3	WH
692.7	CARBONDALE		SANDY SHALE	31.6	79.3	
661.1	CARBONDALE		SHALE	2.0	110.9	DARK
659.1	CARBONDALE	HERRIN	COAL	4.4	112.9	
654.7	CARBONDALE		UNDERCLAY	1.0	117.3	
653.7	CARBONDALE		LIMESTONE	38.3	118.3	
615.4	CARBONDALE		SHALE	11.4	156.6	GY,FIS
604.0	CARBONDALE	ST. DAVID	LIMESTONE	0.7	168.0	"CAP ROCK"
603.3	CARBONDALE	TURNER MINE	BLACK SHALE	2.5	168.7	FISSILE
600.8	CARBONDALE	SPRINGFIELD	COAL	4.1	171.2	
596.7	CARBONDALE		UNDERCLAY	0.7	175.3	

MAPID: 05723125000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 28 QUARTERS/FOOTAGES: 20' S line, 12' W line of NW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.064494 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.647531 DATE COLLECTED: 3 / 28 / 1960

SURFACE ELEVATION (FT.): 770.0 LOGGED (FT.): 113.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
770.0			UNCONSOLIDATED	57.0	0.0	
713.0	CARBONDALE		SHALE	7.0	57.0	STY
706.0	CARBONDALE		SHALE	25.0	64.0	VRGD
681.0	CARBONDALE		SANDSTONE	4.0	89.0	GRAY
677.0	CARBONDALE		SHALE	14.3	93.0	GY,STY
662.7	CARBONDALE	BRERETON	LIMESTONE	0.5	107.3	
662.2	CARBONDALE	HERRIN	COAL	4.0	107.8	
658.2	CARBONDALE		UNDERCLAY	1.3	111.8	

MAPID: 05723126000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 28 QUARTERS/FOOTAGES: 46' S line, 40' E line of SW NW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.059902 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.647583 DATE COLLECTED: 3 / 15 / 1960

SURFACE ELEVATION (FT.): 765.0 LOGGED (FT.): 127.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
765.0			UNCONSOLIDATED	59.0	0.0	
706.0	MODESTO	FARMINGTON	GRAY SHALE	23.8	59.0	
682.2	MODESTO		SHALE	2.3	82.8	DARK
679.9	MODESTO		BLACK SHALE	0.8	85.1	BS MODESTO; BK; FIS
679.2	CARBONDALE	DANVILLE	COAL	1.5	85.8	
677.7	CARBONDALE		UNDERCLAY	2.7	87.3	
675.0	CARBONDALE		SHALE	7.0	90.0	GY,SDY
668.0	CARBONDALE		GRAY SHALE	25.2	97.0	
642.8	CARBONDALE	HERRIN	COAL	4.0	122.2	
638.8	CARBONDALE		UNDERCLAY	0.8	126.2	

MAPID: 05723127000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 28 QUARTERS/FOOTAGES: 25' N line, 10' W line of NW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.064284 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.654681 DATE COLLECTED: 3 / 10 / 1960

SURFACE ELEVATION (FT.): 777.0 LOGGED (FT.): 182.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
777.0			UNCONSOLIDATED	41.0	0.0	
736.0	MODESTO		GRAY SHALE	32.4	41.0	
703.6	MODESTO		BLACK SHALE	3.0	73.4	
700.6	MODESTO		SHALE	1.0	76.4	BS MODESTO; GY
699.6	CARBONDALE	DANVILLE	COAL	1.3	77.4	
698.2	CARBONDALE		GRAY SHALE	7.1	78.8	
691.2	CARBONDALE		SANDSTONE	14.4	85.8	GRAY
676.7	CARBONDALE		SHALE	13.6	100.3	GY,STY
663.2	CARBONDALE	HERRIN	COAL	4.8	113.8	
658.3	CARBONDALE		UNDERCLAY	6.5	118.7	
651.8	CARBONDALE		LIMESTONE W/ SHALE	2.3	125.2	
649.5	CARBONDALE		SHALE	8.0	127.5	GY,STY
641.5	CARBONDALE		SHALE	27.5	135.5	
614.0	CARBONDALE		SHALE	6.0	163.0	DK GY,GY
608.0	CARBONDALE		SHALE	6.0	169.0	DARK
602.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	175.0	FISSILE
601.0	CARBONDALE	SPRINGFIELD	COAL	5.0	176.0	
596.0	CARBONDALE		UNDERCLAY	1.5	181.0	

MAPID: 05723128000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 28 QUARTERS/FOOTAGES: 0' N line, 0' E line of NW NW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.059532 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.654728 DATE COLLECTED: 3 / 14 / 1960

SURFACE ELEVATION (FT.): 776.0 LOGGED (FT.): 118.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
776.0			UNCONSOLIDATED	38.0	0.0	
738.0	MODESTO	FARMINGTON	GRAY SHALE	36.0	38.0	
702.0	MODESTO		SHALE	2.0	74.0	BS MODESTO; DK
700.0	CARBONDALE	DANVILLE	COAL	1.2	76.0	
698.8	CARBONDALE		GRAY SHALE	7.8	77.2	
691.0	CARBONDALE	COPPERAS CREEK	SANDSTONE	2.0	85.0	
689.0	CARBONDALE	LAWSON	SHALE	24.0	87.0	GY,STY
665.0	CARBONDALE	ANNA	SHALE	0.5	111.0	DARK
664.5	CARBONDALE	HERRIN	COAL	4.7	111.5	
659.8	CARBONDALE		UNDERCLAY	1.8	116.2	

MAPID: 05722153000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 30 QUARTERS/FOOTAGES: 1800' S line, 1500' E line

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.088954 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.645319 DATE COLLECTED: 12 / 19 / 1978

SURFACE ELEVATION (FT.): 760.0 LOGGED (FT.): 530.0 LOG TYPE: Drillers Log

SOURCE: NORTON, WILLIAM H. WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
760.0			UNCONSOLIDATED	123.0	0.0	
637.0	CARBONDALE		SHALE	21.0	123.0	DK GY TO LT GY
616.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	144.0	
615.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	145.0	FISSILE
613.0	CARBONDALE	SPRINGFIELD	COAL	3.0	147.0	
610.0	CARBONDALE		GRAY SHALE	7.0	150.0	
603.0	CARBONDALE		LIMESTONE	1.0	157.0	
602.0	CARBONDALE		SHALE	24.0	158.0	
578.0	CARBONDALE		SANDSTONE	3.0	182.0	GRAY
575.0	CARBONDALE		GRAY SHALE	62.0	185.0	
513.0	CARBONDALE	OAK GROVE	LIMESTONE	1.0	247.0	
512.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	9.0	248.0	DK GY TO BK
503.0	CARBONDALE	COLCHESTER	COAL	3.0	257.0	BASE OF CARBONDALE
500.0	SPOON		SHALE	14.0	260.0	LIGHT GRAY
486.0	SPOON		SANDSTONE	3.0	274.0	
483.0	SPOON		SHALE	3.0	277.0	
480.0	SPOON		LIMESTONE	2.0	280.0	
478.0	SPOON		GRAY SHALE	23.0	282.0	
455.0	SPOON		BLACK SHALE	2.0	305.0	
453.0	SPOON	HERMON	COAL	3.0	307.0	
450.0			GRAY SHALE	35.0	310.0	
415.0			BLACK SHALE	30.0	345.0	BS PENNSYLVANIAN; BK
385.0			ROCK	155.0	375.0	MISSISSIPPIAN

MAPID: 05784961000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 30 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101587

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.647706

DATE COLLECTED: 7 / 15 / 1975

SURFACE ELEVATION (FT.): 746.3 LOGGED (FT.): 115.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23249

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
746.3	PLEISTOCENE		CLAY	33.5	0.0
712.8	PLEISTOCENE		UNCONSOLIDATED	37.2	33.5
675.6	PLEISTOCENE		SAND & GRAVEL	20.0	70.7
655.6	CARBONDALE		GRAY SHALE	11.1	90.7
644.5	CARBONDALE		DARK SHALE	4.8	101.8
639.7	CARBONDALE	ST. DAVID	LIMESTONE	0.4	106.6
639.3	CARBONDALE	TURNER MINE	DARK SHALE	1.6	107.0
637.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	108.6
636.5	CARBONDALE	SPRINGFIELD	COAL	3.0	109.8
633.5	CARBONDALE		UNDERCLAY	2.2	112.8

MAPID: 05784962000C VERSION: 1

PROJECT: NCRDS00

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 30 QUARTERS/FOOTAGES:

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.101551

GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.646131

DATE COLLECTED: 7 / 15 / 1975

SURFACE ELEVATION (FT.): 745.9 LOGGED (FT.): 127.0

LOG TYPE: Drillers Log

SOURCE: MIDLAND COAL CO. FARMWEST 23250

WELL TYPE: Coal Test

COMMENT: LOCATION DIGITIZED FROM CO. MAP 11

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
745.9	PLEISTOCENE		CLAY	17.1	0.0
728.8	PLEISTOCENE		BOULDER	1.1	17.1
727.7	PLEISTOCENE		UNCONSOLIDATED	29.8	18.2
697.9	CARBONDALE		SANDSTONE	4.8	48.0
693.1	CARBONDALE		GRAY SHALE	12.7	52.8
680.4	CARBONDALE		SHALE & SANDSTONE	30.1	65.5
650.3	CARBONDALE		DARK SHALE	22.4	95.6
627.9	CARBONDALE	ST. DAVID	LIMESTONE	0.5	118.0
627.4	CARBONDALE	TURNER MINE	DARK SHALE	1.5	118.5
625.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	120.0
624.4	CARBONDALE	SPRINGFIELD	COAL	3.7	121.5
620.7	CARBONDALE		UNDERCLAY	1.8	125.2

MAPID: 05701774000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 32 QUARTERS/FOOTAGES: 678' N line, 33' W line of NW SE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.074388 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.63119 DATE COLLECTED: 10 / 24 / 1960

SURFACE ELEVATION (FT.): 780.0 LOGGED (FT.): 121.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
780.0			UNCONSOLIDATED	25.5	0.0	
754.5	MODESTO	FARMINGTON	GRAY SHALE	53.5	25.5	
701.0	MODESTO		SHALE	0.8	79.0	BS MODESTO; DK
700.2	CARBONDALE	DANVILLE	COAL	1.0	79.8	
699.2	CARBONDALE		GRAY SHALE	9.2	80.8	
690.0	CARBONDALE		LIMESTONE	2.0	90.0	
688.0	CARBONDALE	COPPERAS CREEK	SANDSTONE	5.0	92.0	
683.0	CARBONDALE	LAWSON	SANDY SHALE	17.5	97.0	
665.5	CARBONDALE	ANNA	SHALE	1.5	114.5	DARK
664.0	CARBONDALE	HERRIN	COAL WITH SHALE	4.3	116.0	3-IN PTG
659.7	CARBONDALE		UNDERCLAY	0.7	120.3	

MAPID: 05701775000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 32 QUARTERS/FOOTAGES: 6' S line, 1270' W line of SE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.070083 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.625902 DATE COLLECTED: 5 / 24 / 1960

SURFACE ELEVATION (FT.): 764.4 LOGGED (FT.): 183.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
764.4			UNCONSOLIDATED	29.0	0.0	
735.4	MODESTO		GRAY SHALE	7.0	29.0	
728.4	MODESTO		SANDSTONE	9.0	36.0	
719.4	MODESTO	FARMINGTON	GRAY SHALE	27.5	45.0	
691.9	MODESTO		SHALE	1.5	72.5	DARK
690.4	MODESTO		BLACK SHALE	0.7	74.0	BS MODESTO; BK: FIS
689.7	CARBONDALE	DANVILLE	COAL	1.4	74.7	
688.3	CARBONDALE		UNDERCLAY	3.0	76.1	
685.3	CARBONDALE		GRAY SHALE	7.9	79.1	
677.4	CARBONDALE	COPPERAS CREEK	SANDSTONE	5.0	87.0	
672.4	CARBONDALE	LAWSON	GRAY SHALE	14.0	92.0	
658.4	CARBONDALE	BRERETON	LIMESTONE	3.0	106.0	
655.4	CARBONDALE		SHALE	0.8	109.0	DARK
654.6	CARBONDALE	ANNA	BLACK SHALE	1.0	109.8	FISSILE
653.6	CARBONDALE	HERRIN	COAL	4.7	110.8	
648.9	CARBONDALE		UNDERCLAY	2.0	115.5	
646.9	CARBONDALE	CANTON	SHALE	57.5	117.5	GY W/ LS STGRS
589.4	CARBONDALE	ST. DAVID	LIMESTONE	0.5	175.0	"CAP ROCK"
588.9	CARBONDALE	TURNER MINE	SHALE	2.0	175.5	DARK
586.9	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	177.5	FISSILE
586.2	CARBONDALE	SPRINGFIELD	COAL	4.3	178.2	
581.9	CARBONDALE		UNDERCLAY	1.0	182.5	

MAPID: 05701776000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 32 QUARTERS/FOOTAGES: 27' S line, 69' E line of SE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.065448 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.625944 DATE COLLECTED: 10 / 10 / 1960

SURFACE ELEVATION (FT.): 764.6 LOGGED (FT.): 111.4 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
764.6			UNCONSOLIDATED	22.0	0.0	
742.6	MODESTO		GRAY SHALE	5.0	22.0	
737.6	MODESTO		SANDSTONE	1.0	27.0	
736.6	MODESTO	FARMINGTON	GRAY SHALE	40.5	28.0	
696.1	MODESTO		BLACK SHALE	2.5	68.5	BS MODESTO; BK; FIS
693.6	CARBONDALE	DANVILLE	COAL	1.5	71.0	
692.1	CARBONDALE		GRAY SHALE	8.5	72.5	
683.6	CARBONDALE		LIMESTONE	1.5	81.0	
682.1	CARBONDALE	COPPERAS CREEK	SANDSTONE	9.5	82.5	
672.6	CARBONDALE	LAWSON	GRAY SHALE	14.5	92.0	
658.1	CARBONDALE	ANNA	SHALE	0.5	106.5	DARK
657.6	CARBONDALE	HERRIN	COAL WITH SHALE	4.3	107.0	3-IN PTG
653.3			UNDERCLAY	0.2	111.3	

MAPID: 05701777000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 32 QUARTERS/FOOTAGES: 990' S line, 1320' E line of SE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.069899 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.628615 DATE COLLECTED: 10 / 21 / 1960

SURFACE ELEVATION (FT.): 774.8 LOGGED (FT.): 123.7 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
774.8			UNCONSOLIDATED	21.0	0.0	
753.8	MODESTO		GRAY SHALE	14.0	21.0	
739.8	MODESTO		LIMESTONE	1.0	35.0	"BOULDER"
738.8	MODESTO		GRAY SHALE	29.5	36.0	
709.3	MODESTO		LIMESTONE	1.0	65.5	
708.3	MODESTO	FARMINGTON	GRAY SHALE	12.0	66.5	
696.3	MODESTO		SHALE	1.2	78.5	DARK
695.1	MODESTO		BLACK SHALE	1.6	79.7	BS MODESTO; BK; FIS
693.5	CARBONDALE	DANVILLE	COAL	1.3	81.3	
692.2	CARBONDALE		GRAY SHALE	2.4	82.6	
689.8	CARBONDALE		SANDSTONE	6.5	85.0	
683.3	CARBONDALE		GRAY SHALE	1.0	91.5	
682.3	CARBONDALE	COPPERAS CREEK	SANDSTONE	14.5	92.5	
667.8	CARBONDALE	LAWSON	SHALE	7.8	107.0	GY,SDY
660.0	CARBONDALE	BRERETON	LIMESTONE	3.3	114.8	"CAP ROCK"
656.6	CARBONDALE	HERRIN	COAL WITH SHALE	4.4	118.2	3-IN PTG
652.2	CARBONDALE		UNDERCLAY	1.1	122.6	

MAPID: 05701778000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 32 QUARTERS/FOOTAGES: 684' N line, 42' E line of NE SE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.065194 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.631148 DATE COLLECTED: 10 / 21 / 1960

SURFACE ELEVATION (FT.): 768.1 LOGGED (FT.): 108.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
768.1			UNCONSOLIDATED	25.0	0.0	
743.1	MODESTO	FARMINGTON	SHALE	39.4	25.0	VRGD
703.7	MODESTO		SHALE	1.9	64.4	DARK
701.8	MODESTO		BLACK SHALE	0.7	66.3	BS MODESTO; BK; FIS
701.1	CARBONDALE	DANVILLE	COAL	1.3	67.0	
699.8	CARBONDALE		GRAY SHALE	7.7	68.3	
692.1	CARBONDALE		LIMESTONE	2.7	76.0	
689.4	CARBONDALE	COPPERAS CREEK	SANDSTONE	6.3	78.7	
683.1	CARBONDALE	LAWSON	SHALE	11.2	85.0	LIGHT GRAY
671.9	CARBONDALE	BRERETON	LIMESTONE	0.3	96.2	
671.7	CARBONDALE	ENERGY	GRAY SHALE	7.8	96.4	
663.8	CARBONDALE	HERRIN	COAL	4.0	104.3	2-IN PTG
659.8	CARBONDALE		UNDERCLAY	0.3	108.3	

MAPID: 05760126000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 32 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.074681 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.6259 DATE COLLECTED: 3 / 14 / 1961

SURFACE ELEVATION (FT.): 772.0 LOGGED (FT.): 115.1 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.0	CARBONDALE	DANVILLE	COAL	1.3	76.0	
694.7	CARBONDALE		UNCLASSIFIED	33.2	77.3	
661.5	CARBONDALE	HERRIN	COAL	4.6	110.5	

MAPID: 05700839000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON

TWP/RNG: 8N 4E

SECTION: 33

QUARTERS/FOOTAGES: 28' S line, 36' E line of NE NE

QUADRANGLE: FARMINGTON WEST

LONGITUDE: -90.045896

GEOLOGIST: TRASK,CB

CONFIDENTIAL: N

LATITUDE: 40.63664

DATE COLLECTED: 9 / 29 / 1911

SURFACE ELEVATION (FT.): 755.0

LOGGED (FT.): 180.8

LOG TYPE: Drillers Log

SOURCE: ALDEN COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
755.0			UNCONSOLIDATED	24.0	0.0	
731.0	MODESTO	FARMINGTON	SHALE	48.0	24.0	BS MODESTO
683.0	CARBONDALE	DANVILLE	COAL	1.6	72.0	
681.4	CARBONDALE		SHALE	10.0	73.6	WH
671.4	CARBONDALE		SANDY SHALE	26.0	83.6	
645.4	CARBONDALE		SHALE	2.8	109.6	DARK
642.6	CARBONDALE	HERRIN	COAL	4.3	112.4	
638.3	CARBONDALE		UNDERCLAY	1.5	116.7	
636.8	CARBONDALE		SANDY SHALE	37.2	118.2	
599.7	CARBONDALE		SHALE	17.5	155.3	GY,FIS
582.2	CARBONDALE	ST. DAVID	LIMESTONE	1.5	172.8	"CAP ROCK"
580.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.8	174.3	FISSILE
578.8	CARBONDALE	SPRINGFIELD	COAL	4.0	176.2	
574.8	CARBONDALE		UNDERCLAY	0.7	180.2	

MAPID: 05700840000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 33 QUARTERS/FOOTAGES: 22' S line, 38' W line of NW NE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.055181 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.63665 DATE COLLECTED: 9 / 29 / 1911

SURFACE ELEVATION (FT.): 763.0 LOGGED (FT.): 172.3 LOG TYPE: Drillers Log

SOURCE: ALDEN COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
763.0			UNCONSOLIDATED	28.0	0.0	
735.0	MODESTO	FARMINGTON	SHALE	39.0	28.0	
696.0	MODESTO		SHALE	4.0	67.0	BS MODESTO; DK
692.0	CARBONDALE	DANVILLE	COAL	1.3	71.0	
690.7	CARBONDALE		SHALE	7.0	72.3	WH
683.7	CARBONDALE		SANDY SHALE	28.7	79.3	
655.0	CARBONDALE		SHALE	1.8	108.0	DARK
653.2	CARBONDALE	HERRIN	COAL	1.1	109.8	
652.1	CARBONDALE		UNDERCLAY	1.8	110.9	
650.3	CARBONDALE		SHALE	36.0	112.7	CALC
614.3	CARBONDALE		SHALE	15.8	148.7	GY,FIS
598.4	CARBONDALE	ST. DAVID	LIMESTONE	1.6	164.6	"CAP ROCK"
596.8	CARBONDALE	TURNER MINE	BLACK SHALE	2.7	166.2	FISSILE
594.2	CARBONDALE	SPRINGFIELD	COAL	3.0	168.8	
591.2	CARBONDALE		UNDERCLAY	0.5	171.8	

MAPID: 05700842000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 34 QUARTERS/FOOTAGES: SW NE NW SW

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.042919 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.631652 DATE COLLECTED:

SURFACE ELEVATION (FT.): 750.0 LOGGED (FT.): 933.0 LOG TYPE: Drillers Log

SOURCE: CANTON COAL CO. WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
750.0			UNCONSOLIDATED	20.0	0.0	
730.0	CARBONDALE		ROCK	80.0	20.0	
650.0	CARBONDALE	HERRIN	COAL	3.0	100.0	
647.0	CARBONDALE		ROCK	71.0	103.0	
576.0	CARBONDALE	SPRINGFIELD	COAL	5.0	174.0	
571.0			SHALE	291.0	179.0	BS PENNSYLVANIAN; UNDIFF
280.0			ROCK	463.0	470.0	MISSISSIPPIAN

MAPID: 05701379000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 34 QUARTERS/FOOTAGES: 1000' S line, 2000' E line of SE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.034089 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.62859 DATE COLLECTED: 11 / 0 / 1965

SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 1702.0 LOG TYPE: Drillers Log

SOURCE: NORTON, WILLIAM H., JR. WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.0			UNCONSOLIDATED	31.0	0.0	
699.0	MODESTO		GRAY SHALE	37.0	31.0	
662.0	MODESTO		BLACK SHALE	2.0	68.0	BS MODESTO; BK
660.0	CARBONDALE	DANVILLE	COAL	2.0	70.0	
658.0	CARBONDALE		GRAY SHALE	14.0	72.0	
644.0	CARBONDALE		SANDSTONE	2.0	86.0	GRAY
642.0	CARBONDALE		SHALE	2.0	88.0	GNSH GY
640.0	CARBONDALE		SHALE	16.0	90.0	LT GY TO GY,COLLAPSED ROOF OF MINE
624.0	CARBONDALE	HERRIN	COAL	11.0	106.0	TMBRS,LOOSE SH,MINE
613.0	CARBONDALE		SHALE	32.0	117.0	GY TO GNSH GY
581.0	CARBONDALE		LIMESTONE	3.0	149.0	SHY
578.0	CARBONDALE		GRAY SHALE	3.0	152.0	
575.0	CARBONDALE		SANDSTONE	4.0	155.0	SHY
571.0	CARBONDALE		GRAY SHALE	2.0	159.0	
569.0	CARBONDALE		BLACK SHALE	3.0	161.0	
566.0	CARBONDALE		BLACK SHALE	7.0	164.0	DK GY TO BK,ROOF COLLAPSE AT 170
559.0	CARBONDALE	SPRINGFIELD	COAL	10.0	171.0	BK SH ABV,GY SH BLW,PROB PILLAR OF MINE
549.0	CARBONDALE		LIMESTONE	2.0	181.0	INTRLAMD W/ DK GY SH
547.0	CARBONDALE		SHALE	17.0	183.0	LT GY TO DK GY
530.0	CARBONDALE	HOUCHIN CREEK	COAL WITH SHALE	3.0	200.0	DK GY SH AND COAL
527.0	CARBONDALE		SHALE	23.0	203.0	LT GY TO DK GY
504.0	CARBONDALE	LOWELL	COAL WITH SHALE	2.0	226.0	GY SH AND COAL
502.0	CARBONDALE		DARK GRAY SHALE	42.0	228.0	
460.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	16.0	270.0	
444.0	CARBONDALE	COLCHESTER	COAL	4.0	286.0	BASE OF CARBONDALE
440.0	SPOON		SHALE	54.0	290.0	LT GY TO DK GY,LOCLY SDY
386.0	SPOON		SANDSTONE	10.0	344.0	GRAY
376.0	SPOON		BLACK SHALE	26.0	354.0	
350.0	SPOON		BLACK SHALE	5.0	380.0	BK,CTNS COAL
345.0	SPOON	ROCK ISLAND	COAL	5.0	385.0	
340.0	SPOON		SHALE	6.0	390.0	BS SPOON; DK GY
334.0	ABBOTT	BERNADOTTE	SANDSTONE	16.0	396.0	GY,SHY LWR 2 FT
318.0	ABBOTT		SHALE	44.0	412.0	BS PENNSYLVANIAN; LT GY TO DK GY
274.0			ROCK	1246.0	456.0	MISSISSIPPIAN AND OLDER

MAPID: 05701044000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 35 QUARTERS/FOOTAGES: 0' S line, 0' W line of NW SE
 QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.01734 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.629453 DATE COLLECTED: 9 / 22 / 1955
 SURFACE ELEVATION (FT.): 731.2 LOGGED (FT.): 116.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.2			UNCONSOLIDATED	58.0	0.0	
673.2	MODESTO	FARMINGTON	SHALE	14.0	58.0	BS MODESTO
659.2	CARBONDALE	DANVILLE	COAL	1.3	72.0	
657.9	CARBONDALE		SANDY SHALE	33.0	73.3	
624.9	CARBONDALE		SANDSTONE	2.0	106.3	
622.9	CARBONDALE	HERRIN	COAL WITH SHALE	4.3	108.3	
618.6	CARBONDALE		UNDERCLAY	3.4	112.6	

MAPID: 05701045000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 35 QUARTERS/FOOTAGES: 0' N line, 0' E line of SE
 QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.007734 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.633064 DATE COLLECTED: 9 / 22 / 1955
 SURFACE ELEVATION (FT.): 721.3 LOGGED (FT.): 104.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.3			UNCONSOLIDATED	26.0	0.0	
695.3	MODESTO	FARMINGTON	SHALE	33.0	26.0	SDY IN LWR 1/2
662.3	MODESTO		BLACK SHALE	1.0	59.0	BS MODESTO; BK
661.3	CARBONDALE	DANVILLE	COAL	1.5	60.0	
659.8	CARBONDALE		UNDERCLAY	1.5	61.5	
658.3	CARBONDALE		SANDY SHALE	31.5	63.0	
626.8	CARBONDALE		SANDSTONE	0.7	94.5	
626.1	CARBONDALE	HERRIN	COAL WITH SHALE	7.8	95.2	
618.3	CARBONDALE		UNDERCLAY	1.0	103.0	

MAPID: 05701047000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 35 QUARTERS/FOOTAGES: 0' S line, 0' E line
 QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.007957 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.62594 DATE COLLECTED: 9 / 16 / 1955
 SURFACE ELEVATION (FT.): 706.3 LOGGED (FT.): 99.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
706.3			UNCONSOLIDATED	20.0	0.0	
686.3	MODESTO	FARMINGTON	SHALE	33.0	20.0	
653.3	MODESTO		BLACK SHALE	1.0	53.0	BS MODESTO; BK; FIS
652.3	CARBONDALE	DANVILLE	COAL	1.4	54.0	
650.9	CARBONDALE		UNDERCLAY	3.0	55.4	
647.9	CARBONDALE		SANDY SHALE	31.6	58.4	
616.3	CARBONDALE		SHALE	1.4	90.0	
614.9	CARBONDALE	HERRIN	COAL	4.5	91.4	
610.4	CARBONDALE		UNDERCLAY	3.1	95.9	

MAPID: 05701048000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 35 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE
 QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.017422 GEOLOGIST: TRASK,CB
 CONFIDENTIAL: N LATITUDE: 40.62588 DATE COLLECTED: 9 / 19 / 1955
 SURFACE ELEVATION (FT.): 702.6 LOGGED (FT.): 152.9 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
702.6			UNCONSOLIDATED	14.0	0.0	
688.6	MODESTO	FARMINGTON	SHALE	24.7	14.0	
663.9	MODESTO		BLACK SHALE	0.3	38.7	
663.7	CARBONDALE	DANVILLE	COAL	1.1	38.9	
662.6	CARBONDALE		UNDERCLAY	1.0	40.0	
661.6	CARBONDALE		SHALE	11.0	41.0	
650.6	CARBONDALE		SANDY SHALE	23.9	52.0	
626.7	CARBONDALE		SANDSTONE	1.5	75.9	
625.2	CARBONDALE	HERRIN	COAL WITH SHALE	4.4	77.4	
620.8	CARBONDALE		UNDERCLAY	2.0	81.8	
618.8	CARBONDALE		SANDSTONE/SHALE	6.1	83.8	
612.7	CARBONDALE		SANDSTONE	4.0	89.9	
608.7	CARBONDALE		SANDY SHALE	47.0	93.9	
561.7	CARBONDALE	ST. DAVID	LIMESTONE	1.3	140.9	"CAP ROCK"
560.4	CARBONDALE	TURNER MINE	BLACK SHALE	2.7	142.2	FISSILE
557.8	CARBONDALE	SPRINGFIELD	COAL	2.8	144.8	
555.0	CARBONDALE		UNDERCLAY	5.3	147.6	

MAPID: 05701049000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 35 QUARTERS/FOOTAGES: 0' S line, 0' W line of SE SE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.01269 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.625909 DATE COLLECTED: 9 / 19 / 1955

SURFACE ELEVATION (FT.): 719.8 LOGGED (FT.): 105.4 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE COLLIERIES CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
719.8			UNCONSOLIDATED	26.0	0.0	
693.8	MODESTO		SHALE	31.0	26.0	
662.8	MODESTO		LIMESTONE	0.2	57.0	"HARD ROCK"
662.6	MODESTO	FARMINGTON	SHALE	2.0	57.2	DARK
660.6	MODESTO		BLACK SHALE	1.0	59.2	FISSILE
659.6	MODESTO		LIMESTONE	0.4	60.2	"HARD ROCK"
659.2	CARBONDALE	DANVILLE	COAL	1.0	60.6	
658.2	CARBONDALE		UNDERCLAY	3.0	61.6	
655.2	CARBONDALE		SHALE	33.5	64.6	SDY,SS STKS
621.7	CARBONDALE	HERRIN	COAL WITH SHALE	4.3	98.1	
617.4	CARBONDALE		UNDERCLAY	3.0	102.4	

MAPID: 05760122000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 35 QUARTERS/FOOTAGES: SE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.012593 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.629476 DATE COLLECTED: 3 / 14 / 1961

SURFACE ELEVATION (FT.): 710.0 LOGGED (FT.): 101.5 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM ISGS MAP ROOM 4103.F8 I5.1-76

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.5	CARBONDALE	DANVILLE	COAL	1.8	60.5	
647.7	CARBONDALE		UNCLASSIFIED	35.2	62.3	
612.5	CARBONDALE	HERRIN	COAL	4.0	97.5	

MAPID: 05786655000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 35 QUARTERS/FOOTAGES: NE SE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.010165 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.631272 DATE COLLECTED: 9 / 22 / 1955

SURFACE ELEVATION (FT.): 721.3 LOGGED (FT.): 104.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A67 WELL TYPE: Coal Test

COMMENT: NORRIS BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
721.3	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
711.3	PLEISTOCENE		CLAY & GRAVEL	16.0	10.0	
695.3	SHELBURN		SHALE	15.0	26.0	SOFT
680.3	SHELBURN		SANDY SHALE	18.0	41.0	HARD
662.3	SHELBURN		BLACK SHALE	1.0	59.0	SOFT
661.3	SHELBURN	DANVILLE	COAL	1.5	60.0	
659.8	SHELBURN		UNDERCLAY	1.5	61.5	
658.3	CARBONDALE		SANDY SHALE	31.5	63.0	HARD
626.8	SHELBURN		SANDSTONE	0.7	94.5	
626.1	CARBONDALE	HERRIN	COAL	3.0	95.2	
623.1	CARBONDALE	HERRIN	CLAYSTONE	1.8	98.2	SOFT
621.3	CARBONDALE	HERRIN	COAL	1.8	100.0	
619.5	CARBONDALE	HERRIN	RASH	1.3	101.8	
618.3	CARBONDALE		UNDERCLAY	1.0	103.0	

MAPID: 05786656000C VERSION: 1

PROJECT: NCRDS02

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 35 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SE

QUADRANGLE: FARMINGTON WEST LONGITUDE: -90.01734 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 40.629453 DATE COLLECTED: 9 / 22 / 1955

SURFACE ELEVATION (FT.): 731.2 LOGGED (FT.): 116.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE A63 WELL TYPE: Coal Test

COMMENT: NORRIS FIELD AREA BOX 28

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.2	PLEISTOCENE		CLAY	18.0	0.0	
713.2	PLEISTOCENE		CLAY	40.0	18.0	
673.2	SHELBURN		SHALE	14.0	58.0	
659.2	SHELBURN	DANVILLE	COAL	1.3	72.0	
657.9	SHELBURN		SANDY SHALE	33.0	73.3	HARD
624.9	SHELBURN		SANDSTONE	2.0	106.3	SOFT
622.9	CARBONDALE	HERRIN	COAL	2.5	108.3	GOOD
620.4	CARBONDALE	HERRIN	CLAYSTONE	0.1	110.8	SOFT
620.3	CARBONDALE	HERRIN	COAL	1.7	110.9	
618.6	CARBONDALE		UNDERCLAY	3.4	112.6	

MAPID: 05760167000C VERSION: 1

PROJECT: CBT-FULTON

COUNTY: FULTON TWP/RNG: 8N 4E SECTION: 36 QUARTERS/FOOTAGES: 420' S line, 200' E line

QUADRANGLE: FARMINGTON WEST LONGITUDE: -89.989683 GEOLOGIST: TRASK,CB

CONFIDENTIAL: N LATITUDE: 40.627043 DATE COLLECTED: 3 / 14 / 1961

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 82.0 LOG TYPE: Drillers Log

SOURCE: TRUAX-TRAER COAL CO. WELL TYPE: Coal Test

COMMENT: DATA FROM IGS MAP ROOM 4103.F8 I5.1-77

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
640.0	CARBONDALE	DANVILLE	COAL	0.3	40.0
639.7	CARBONDALE		UNCLASSIFIED	37.7	40.3
602.0	CARBONDALE	HERRIN	COAL	4.0	78.0
