

Status Report



Total Records: 234

Top 3 County Records		Top 3 Log Type Records		Top 3 Coal Records		Top 3 Member Records	
Adams	234	Drillers Log	223	COLCHESTER	163	COLCHESTER COAL	163
		Survey Sample Study	6	ROCK ISLAND	3	COLCHESTER FUSAIN	12
		Measured section	5	DANVILLE	1	MECCA QUARRY BLACK SHALE	7

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
DANVILLE	COAL	114.0	114.0	114.0	3.0	3.0	3.0
OAK GROVE	LIMESTONE	50.2	29.0	65.8	2.1	0.5	3.7
MECCA QUARRY	SHALE	92.1	30.5	335.0	2.9	1.0	6.0
FRANCIS CREEK	SANDSTONE	55.0	32.5	73.8	11.3	2.0	20.0
COLCHESTER	COAL	66.3	0.2	141.5	2.1	0.2	3.0
ROCK ISLAND	COAL	89.6	85.0	95.0	0.5	0.2	0.7
				Net Coal	5.6		

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: 00122545000C VERSION: 1 PROJECT: NCRDS95
COUNTY: ADAMS TWP/RNG: 1N 5W SECTION: 1 QUARTERS/FOOTAGES: 2400' N line, 50' E line
QUADRANGLE: CLAYTON LONGITUDE: -90.9136 GEOLOGIST: KOROSE
CONFIDENTIAL: N LATITUDE: 40.097881 DATE COLLECTED: 6 / 7 / 1967
SURFACE ELEVATION (FT.): 711.0 LOGGED (FT.): 124.0 LOG TYPE: Drillers Log
SOURCE: PITTSBURG & MIDWAY 24-C WELL TYPE: Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
711.0	PLEISTOCENE		CLAY	42.0	0.0
669.0	PLEISTOCENE		MUD	13.0	42.0 BLUE
656.0	CARBONDALE		SHALE	62.5	55.0
593.5	CARBONDALE	COLCHESTER	COAL	2.3	117.5
591.2	SPOON		UNDERCLAY	1.3	119.8
590.0	SPOON		CALCAREOUS SHALE	2.5	121.0
587.5	SPOON		LIMESTONE	0.5	123.5

MAPID: 00122546000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 1N 5W SECTION: 12 QUARTERS/FOOTAGES: 2640' N line, 1' W line
 QUADRANGLE: CLAYTON LONGITUDE: -90.93273 GEOLOGIST: KOROSE
 CONFIDENTIAL: N LATITUDE: 40.083865 DATE COLLECTED: 7 / 14 / 1967
 SURFACE ELEVATION (FT.): 645.0 LOGGED (FT.): 100.5 LOG TYPE: Drillers Log
 SOURCE: PITTSBURG & MIDWAY 25-C WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.0	PLEISTOCENE		CLAY	37.0	0.0	
608.0	PLEISTOCENE		MUD	18.0	37.0	BLUE
590.0			GRAY SHALE	9.0	55.0	
581.0			LIGHT SHALE	36.0	64.0	
545.0			LIMESTONE	0.5	100.0	

MAPID: 00121500000C VERSION: 1

PROJECT: BLM

COUNTY: ADAMS TWP/RNG: 1S 5W SECTION: 22 QUARTERS/FOOTAGES: SE SW NW
 QUADRANGLE: KELLERVILLE LONGITUDE: -90.968418 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 39.968047 DATE COLLECTED: 4 / 12 / 1980
 SURFACE ELEVATION (FT.): 730.0 LOGGED (FT.): 400.0 LOG TYPE: Drillers Log
 SOURCE: J. P. JOHNSON WELL TYPE: Water Well
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
730.0			UNCONSOLIDATED	48.0	0.0	
682.0			SHALE	64.0	48.0	
618.0			COAL	5.0	112.0	
613.0			ROCK	283.0	117.0	

MAPID: 00122547000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 1 QUARTERS/FOOTAGES: 2700' N line, 1220' W line

QUADRANGLE: AUGUSTA LONGITUDE: -90.926654 GEOLOGIST: KOROSE

CONFIDENTIAL: N LATITUDE: 40.185639 DATE COLLECTED: 1 / 19 / 1967

SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 59.0 LOG TYPE: Drillers Log

SOURCE: PITTSBURG & MIDWAY 43-C WELL TYPE: Coal Test

COMMENT: SURFELV UPDATED TO REFLECT TOPO

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
670.0	PLEISTOCENE		CLAY	9.0	0.0
661.0	CARBONDALE		SANDSTONE	37.0	9.0
624.0	CARBONDALE		LIMESTONE	1.0	46.0
623.0	CARBONDALE		SANDSTONE	3.0	47.0
620.0	CARBONDALE	COLCHESTER	COAL	1.5	50.0
618.5	SPOON		UNDERCLAY	5.0	51.5
613.5	SPOON		CALCAREOUS SHALE	1.5	56.5
612.0	SPOON		SHALE	1.0	58.0

MAPID: 00183739000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 1 QUARTERS/FOOTAGES: 30' S line, 15' E line of SW SW

QUADRANGLE: AUGUSTA LONGITUDE: -90.926517 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.178095 DATE COLLECTED: 11 / 12 / 1975

SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN419 WELL TYPE: Coal Test

COMMENT: AUGUSTA BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
675.0	PLEISTOCENE		SILT	2.0	0.0
673.0	PLEISTOCENE		SANDY CLAY	8.0	2.0
665.0	PLEISTOCENE		SANDY CLAY	18.0	10.0
647.0			SANDY SHALE	11.0	28.0
636.0			LIMESTONE	2.5	39.0
633.5			SANDY SHALE	33.0	41.5
600.5			LIMESTONE	1.5	74.5

MAPID: 00183740000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 1 QUARTERS/FOOTAGES: 0' S line, 35' E line of SE SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.912384 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.177889 DATE COLLECTED: 11 / 11 / 1975

SURFACE ELEVATION (FT.): 676.0 LOGGED (FT.): 102.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN425 WELL TYPE: Coal Test

COMMENT: AUGUSTA BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
676.0	PLEISTOCENE		SILT	1.0	0.0	
675.0	PLEISTOCENE		CLAY	17.0	1.0	
658.0	CARBONDALE		SANDSTONE	8.0	18.0	
650.0	CARBONDALE		GRAY SHALE	35.0	26.0	
615.0	CARBONDALE		SANDY SHALE	4.0	61.0	
611.0	CARBONDALE	COLCHESTER	COAL	1.5	65.0	SANDY
609.5	CARBONDALE		UNDERCLAY	0.5	66.5	
609.0	CARBONDALE		SANDY SHALE	34.0	67.0	
575.0	CARBONDALE		LIMESTONE	1.0	101.0	

MAPID: 00183760000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 1 QUARTERS/FOOTAGES: 15' N line, 0' E line of SE SW

QUADRANGLE: AUGUSTA LONGITUDE: -90.921647 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.181694 DATE COLLECTED: 11 / 13 / 1975

SURFACE ELEVATION (FT.): 682.0 LOGGED (FT.): 132.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN471 WELL TYPE: Coal Test

COMMENT: AUGUSTA BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.0	PLEISTOCENE		SILT	1.0	0.0	
681.0	PLEISTOCENE		CLAY	15.0	1.0	
666.0			SANDY SHALE	10.0	16.0	
656.0			GRAY SHALE	73.0	26.0	
583.0			SANDY SHALE	28.0	99.0	
555.0			LIMESTONE	5.0	127.0	

MAPID: 00183765000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 1 QUARTERS/FOOTAGES: 660' N line, 10' E line of NW SW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.926377 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.183726 DATE COLLECTED: 11 / 12 / 1975
 SURFACE ELEVATION (FT.): 667.0 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN494 WELL TYPE: Coal Test
 COMMENT: AUGUSTA BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
667.0	PLEISTOCENE		SILT	1.0	0.0
666.0	PLEISTOCENE		CLAY	11.0	1.0
655.0			GRAY SHALE	8.0	12.0
647.0			SANDY SHALE	44.0	20.0
603.0			LIMESTONE	2.5	64.0
600.5			GRAY SHALE	6.5	66.5
594.0			SANDY SHALE	10.0	73.0
584.0			DARK SHALE	15.0	83.0
569.0			LIMESTONE	10.0	98.0

MAPID: 00183772000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 1 QUARTERS/FOOTAGES: 25' N line, 20' E line of NW SW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.926373 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.185479 DATE COLLECTED: 11 / 12 / 1975
 SURFACE ELEVATION (FT.): 663.0 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN519 WELL TYPE: Coal Test
 COMMENT: AUGUSTA BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
663.0	PLEISTOCENE		SILT	1.0	0.0
662.0	PLEISTOCENE		CLAY	8.5	1.0
653.5			SANDSTONE	40.5	9.5
613.0			GRAY SHALE	21.0	50.0
592.0			SANDSTONE	2.0	71.0
590.0			DARK SHALE	15.0	73.0
575.0			SANDY SHALE	16.0	88.0
559.0			LIMESTONE	4.0	104.0

MAPID: 00183773000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 1 QUARTERS/FOOTAGES: 0' N line, 660' W line of NE SW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.923927 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.185525 DATE COLLECTED: 11 / 13 / 1975
 SURFACE ELEVATION (FT.): 681.0 LOGGED (FT.): 114.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN520 WELL TYPE: Coal Test
 COMMENT: AUGUSTA

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.0	PLEISTOCENE		SILT	3.0	0.0
678.0	PLEISTOCENE		CLAY	7.0	3.0
671.0	PLEISTOCENE		UNCONSOLIDATED	16.0	10.0
655.0			SANDY SHALE	64.0	26.0
591.0			DARK SHALE	22.0	90.0
569.0			LIMESTONE	2.0	112.0

MAPID: 00183774000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 1 QUARTERS/FOOTAGES: 10' N line, 10' E line of NE SE
 QUADRANGLE: AUGUSTA LONGITUDE: -90.912114 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.185382 DATE COLLECTED: 4 / 24 / 1975
 SURFACE ELEVATION (FT.): 690.8 LOGGED (FT.): 128.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN525-1 WELL TYPE: Coal Test
 COMMENT: AUGUSTA BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
690.8	PLEISTOCENE		UNCONSOLIDATED	24.0	0.0
666.8	CARBONDALE		DARK SHALE	32.0	24.0
634.8	CARBONDALE		SANDY SHALE	13.0	56.0
621.8	CARBONDALE		SANDSTONE	23.0	69.0
598.8	CARBONDALE		SANDY SHALE	1.4	92.0
597.4	CARBONDALE	COLCHESTER	COAL	1.7	93.4
595.7	CARBONDALE		UNDERCLAY	3.9	95.1
591.8	CARBONDALE		DARK SHALE	3.3	99.0
588.5	CARBONDALE		LIMESTONE	1.3	102.3
587.2	CARBONDALE		SANDY SHALE	6.4	103.6
580.8	CARBONDALE		LIMESTONE	18.0	110.0 HARD

MAPID: 00183775000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 1 QUARTERS/FOOTAGES: 0' N line, 35' E line of NE SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.912205 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.185411 DATE COLLECTED: 11 / 12 / 1975

SURFACE ELEVATION (FT.): 691.0 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN525-2 WELL TYPE: Coal Test

COMMENT: AUGUSTA BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
691.0	PLEISTOCENE		SILT	3.0	0.0	
688.0	PLEISTOCENE		CLAY	12.0	3.0	YELLOW
676.0	PLEISTOCENE		UNCONSOLIDATED	18.0	15.0	
658.0	CARBONDALE		SANDY SHALE	40.0	33.0	
618.0	CARBONDALE	COLCHESTER	COAL	0.9	73.0	
617.1	CARBONDALE		UNDERCLAY	1.1	73.9	
616.0	CARBONDALE		SANDY SHALE	20.0	75.0	
596.0	TRADEWATER	ROCK ISLAND	COAL	0.5	95.0	
595.5	TRADEWATER		UNDERCLAY	1.5	95.5	
594.0	TRADEWATER		GRAY SHALE	10.0	97.0	
584.0	TRADEWATER		LIMESTONE	1.0	107.0	

MAPID: 00122548000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 2 QUARTERS/FOOTAGES: 2760' N line, 1760' W line

QUADRANGLE: AUGUSTA LONGITUDE: -90.94379 GEOLOGIST: KOROSE

CONFIDENTIAL: N LATITUDE: 40.185655 DATE COLLECTED: 1 / 19 / 1967

SURFACE ELEVATION (FT.): 671.0 LOGGED (FT.): 52.0 LOG TYPE: Drillers Log

SOURCE: PITTSBURG & MIDWAY 42-C WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.0	PLEISTOCENE		CLAY	14.0	0.0	
657.0	CARBONDALE		SANDSTONE	30.0	14.0	
627.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.0	44.0	
626.0	CARBONDALE	FRANCIS CREEK	SHALE	2.0	45.0	
624.0	CARBONDALE	COLCHESTER	COAL	2.2	47.0	
621.8			UNDERCLAY	2.8	49.2	

MAPID: 00122549000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 650' N line, 2675' E line

QUADRANGLE: AUGUSTA LONGITUDE: -90.959724 GEOLOGIST: KOROSE

CONFIDENTIAL: N LATITUDE: 40.191686 DATE COLLECTED: 7 / 7 / 1967

SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 57.0 LOG TYPE: Drillers Log

SOURCE: PITTSBURG & MIDWAY 5-P WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
675.0	PLEISTOCENE		CLAY	21.0	0.0
654.0	CARBONDALE		SANDSTONE	8.0	21.0
646.0	CARBONDALE	OAK GROVE	LIMESTONE	0.5	29.0
645.5	CARBONDALE		SHALE	1.0	29.5
644.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	30.5
642.5	CARBONDALE	FRANCIS CREEK	DARK SHALE	3.5	32.5
639.0	CARBONDALE		LIGHT SHALE	18.0	36.0
621.0	CARBONDALE	COLCHESTER	COAL	2.2	54.0
618.8			UNDERCLAY	0.8	56.2

MAPID: 00183731000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 25' S line, 40' W line of SW SW

QUADRANGLE: AUGUSTA LONGITUDE: -90.969137 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.178951 DATE COLLECTED: 2 / 4 / 1976

SURFACE ELEVATION (FT.): 668.2 LOGGED (FT.): 77.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN401 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
668.2	PLEISTOCENE		CLAY	12.0	0.0
656.2	PLEISTOCENE		UNCONSOLIDATED	8.0	12.0
648.2	PLEISTOCENE		SAND	43.0	20.0
605.2			GRAY SHALE	14.0	63.0

MAPID: 00183732000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 20' S line, 660' W line of SW SW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.966908 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.17889 DATE COLLECTED: 1 / 4 / 1976
 SURFACE ELEVATION (FT.): 678.8 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN402 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.8	PLEISTOCENE		SILT	1.0	0.0	
677.8	PLEISTOCENE		CLAY	5.0	1.0	
672.8	PLEISTOCENE		SANDY CLAY	63.0	6.0	
609.8			MICACEOUS SHALE	9.0	69.0	

MAPID: 00183733000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 25' S line, 15' E line of SW SW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.964551 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.178853 DATE COLLECTED: 2 / 5 / 1976
 SURFACE ELEVATION (FT.): 683.9 LOGGED (FT.): 128.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN403 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.9	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
675.9	PLEISTOCENE		CLAY	60.0	8.0	BROWN
615.9			GRAY SHALE	6.0	68.0	
609.9			SANDY SHALE	43.0	74.0	
566.9			LIMESTONE	11.0	117.0	

MAPID: 00183734000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 20' S line, 660' E line of SE SW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.962088 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.17879 DATE COLLECTED: 2 / 9 / 1976
 SURFACE ELEVATION (FT.): 682.1 LOGGED (FT.): 118.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN404 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.1	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
674.1	PLEISTOCENE		CLAY	20.0	8.0	BROWN
654.1	PLEISTOCENE		CLAY	46.0	28.0	GREY
608.1			GRAY SHALE	32.0	74.0	
576.1			LIMESTONE	12.0	106.0	

MAPID: 00183735000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 25' S line, 0' E line of SE SW

QUADRANGLE: AUGUSTA LONGITUDE: -90.959716 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.178753 DATE COLLECTED: 2 / 9 / 1976

SURFACE ELEVATION (FT.): 685.3 LOGGED (FT.): 118.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN406 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.3	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0
677.3	PLEISTOCENE		CLAY	32.0	8.0
645.3			GRAY SHALE	30.0	40.0
615.3			LIMESTONE	3.0	70.0
612.3			SANDY SHALE	39.0	73.0
573.3			LIMESTONE	6.0	112.0

MAPID: 00183736000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 15' S line, 660' W line of SW SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.957343 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.178674 DATE COLLECTED: 2 / 10 / 1976

SURFACE ELEVATION (FT.): 688.1 LOGGED (FT.): 128.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN406 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.1	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0
680.1	PLEISTOCENE		CLAY	26.0	8.0
654.1			GRAY SHALE	50.0	34.0
604.1			GRAY SANDSTONE	38.0	84.0
566.1			LIMESTONE	6.0	122.0

MAPID: 00183737000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 0' S line, 25' E line of SW SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.955024 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.178584 DATE COLLECTED: 2 / 10 / 1976

SURFACE ELEVATION (FT.): 688.1 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN407 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.1	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0
680.1	PLEISTOCENE		CLAY	22.0	8.0
658.1	PLEISTOCENE		CLAY	8.0	30.0
650.1			GRAY SHALE	22.0	38.0
628.1			SANDY SHALE	28.0	60.0
600.1			LIMESTONE	2.0	88.0
598.1			SANDY SHALE	8.0	90.0

MAPID: 00183742000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' S line, 35' W line of SW SW

QUADRANGLE: AUGUSTA LONGITUDE: -90.969109 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.180701 DATE COLLECTED: 2 / 0 / 1976

SURFACE ELEVATION (FT.): 682.8 LOGGED (FT.): 77.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN426 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
682.8	PLEISTOCENE		SILT	2.0	0.0
680.8	PLEISTOCENE		CLAY	8.0	2.0
672.8	PLEISTOCENE		UNCONSOLIDATED	10.0	10.0
662.8	PLEISTOCENE		SAND	42.0	20.0
620.8	CARBONDALE	COLCHESTER	COAL	2.3	62.0 TOP ERODED
618.5	CARBONDALE		UNDERCLAY	1.7	64.3
616.8	CARBONDALE		GRAY SHALE	11.0	66.0

MAPID: 00183743000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' S line, 660' W line of SW SW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.966863 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.180654 DATE COLLECTED: 1 / 4 / 1976
 SURFACE ELEVATION (FT.): 680.4 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN427 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.4	PLEISTOCENE		SILT	1.0	0.0	
679.4	PLEISTOCENE		CLAY	17.0	1.0	
662.4	PLEISTOCENE		SAND	24.0	18.0	
638.4	PLEISTOCENE		SANDY CLAY	15.0	42.0	
623.4	CARBONDALE		GRAY SHALE	4.0	57.0	
619.4	CARBONDALE	COLCHESTER	COAL	2.0	61.0	
617.4	CARBONDALE		UNDERCLAY	3.0	63.0	
614.4	CARBONDALE		MICACEOUS SHALE	2.0	66.0	

MAPID: 00183744000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' S line, 20' E line of SW SW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.964534 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.180606 DATE COLLECTED: 2 / 4 / 1976
 SURFACE ELEVATION (FT.): 683.1 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN428 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.1	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0	
680.1	PLEISTOCENE		CLAY	21.0	3.0	BROWN
659.1	PLEISTOCENE		CLAY	21.0	24.0	GREY
638.1	PLEISTOCENE		CLAY	9.0	45.0	BROWN
629.1	CARBONDALE		GRAY SHALE	9.6	54.0	
619.5	CARBONDALE	COLCHESTER	COAL	1.9	63.6	
617.6	CARBONDALE		UNDERCLAY	2.5	65.5	

MAPID: 00183745000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' N line, 660' E line of SE SW

QUADRANGLE: AUGUSTA LONGITUDE: -90.962062 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.180609 DATE COLLECTED: 2 / 4 / 1976

SURFACE ELEVATION (FT.): 685.9 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN429 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.9	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0	
682.9	PLEISTOCENE		CLAY	15.0	3.0	BROWN
667.9	PLEISTOCENE		SAND	14.0	18.0	
653.9	PLEISTOCENE		CLAY	29.0	32.0	GREY
624.9	CARBONDALE		GRAY SHALE	10.8	61.0	
614.1	CARBONDALE		LIMESTONE	0.7	71.8	
613.4	CARBONDALE		GRAY SHALE	23.5	72.5	
589.9	CARBONDALE		LIMESTONE	2.0	96.0	

MAPID: 00183746000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' N line, 0' W line of SW NE

QUADRANGLE: AUGUSTA LONGITUDE: -90.959582 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.187956 DATE COLLECTED: 2 / 5 / 1976

SURFACE ELEVATION (FT.): 682.4 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN430 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.4	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0	
679.4	PLEISTOCENE		CLAY	12.0	3.0	GREY
667.4	PLEISTOCENE		CLAY	13.0	15.0	BROWN
654.4	PLEISTOCENE		CLAY	17.0	28.0	GREY
637.4			GRAY SHALE	37.2	45.0	
600.2			LIMESTONE	5.8	82.2	

MAPID: 00183747000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' N line, 660' E line of SW SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.957288 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.180516 DATE COLLECTED: 2 / 5 / 1976

SURFACE ELEVATION (FT.): 687.8 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN431 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.8	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0	
684.8	PLEISTOCENE		CLAY	13.0	3.0	BROWN
671.8	PLEISTOCENE		CLAY	5.0	16.0	
666.8	PLEISTOCENE		CLAY	10.0	21.0	BROWN
656.8	PLEISTOCENE		CLAY	15.0	31.0	GREY
641.8	CARBONDALE		GRAY SHALE	10.0	46.0	
631.8	CARBONDALE		GRAY SANDSTONE	1.5	56.0	
630.3	CARBONDALE	COLCHESTER	COAL	1.4	57.5	
628.9	CARBONDALE		UNDERCLAY	3.1	58.9	
625.8	CARBONDALE		GRAY SANDSTONE	4.0	62.0	
621.8	CARBONDALE		GRAY SHALE	2.0	66.0	

MAPID: 00183748000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' S line, 15' E line of SW SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.954969 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.180404 DATE COLLECTED: 2 / 6 / 1976

SURFACE ELEVATION (FT.): 687.6 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN432 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.6	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0	
683.6	PLEISTOCENE		CLAY	31.0	4.0	BROWN
652.6	CARBONDALE		GRAY SHALE	16.8	35.0	SOFT
635.8	CARBONDALE	COLCHESTER	COAL	2.2	51.8	
633.6	CARBONDALE		UNDERCLAY	3.0	54.0	
630.6	CARBONDALE		GRAY SHALE	2.0	57.0	
628.6	CARBONDALE		GRAY SANDSTONE	1.0	59.0	
627.6	CARBONDALE		GRAY SHALE	8.0	60.0	

MAPID: 00183749000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' N line, 660' E line of SE SE
 QUADRANGLE: AUGUSTA LONGITUDE: -90.952519 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.18042 DATE COLLECTED: 2 / 9 / 1976
 SURFACE ELEVATION (FT.): 685.1 LOGGED (FT.): 58.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN433 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.1	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0	
681.1	PLEISTOCENE		CLAY	4.0	4.0	BROWN
677.1	PLEISTOCENE		CLAY	5.0	8.0	GRAY
672.1	PLEISTOCENE		CLAY	9.0	13.0	BROWN
663.1	CARBONDALE		GRAY SHALE	12.8	22.0	SOFT
650.3	CARBONDALE		GRAY SANDSTONE	1.2	34.8	
649.1	CARBONDALE		GRAY SHALE	4.0	36.0	
645.1	CARBONDALE		GRAY SANDSTONE	6.1	40.0	
639.0	CARBONDALE	COLCHESTER	COAL	2.0	46.1	
637.0	CARBONDALE		UNDERCLAY	3.9	48.1	
633.1	CARBONDALE		GRAY SANDSTONE	2.3	52.0	
630.8	CARBONDALE		LIMESTONE	0.6	54.3	
630.2	CARBONDALE		GRAY SHALE	3.1	54.9	

MAPID: 00183750000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' N line, 20' E line of SE SE
 QUADRANGLE: AUGUSTA LONGITUDE: -90.950215 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.180376 DATE COLLECTED: 2 / 9 / 1976
 SURFACE ELEVATION (FT.): 688.6 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN434 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.6	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0	
685.6	PLEISTOCENE		CLAY	14.0	3.0	
671.6	PLEISTOCENE		SAND & GRAVEL	8.0	17.0	
663.6	PLEISTOCENE		CLAY	7.0	25.0	
656.6	CARBONDALE		GRAY SHALE	23.2	32.0	SOFT
633.4	CARBONDALE	COLCHESTER	COAL	1.9	55.2	
631.5	CARBONDALE		UNDERCLAY	3.9	57.1	
627.6	CARBONDALE		GRAY SHALE	7.0	61.0	

MAPID: 00183751000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 0' N line, 40' W line of SW SW

QUADRANGLE: AUGUSTA LONGITUDE: -90.969044 GEOLOGIST: ELRICK

CONFIDENTIAL: N LATITUDE: 40.182565 DATE COLLECTED: 2 / 3 / 1976

SURFACE ELEVATION (FT.): 675.1 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN-451 WELL TYPE: Coal Test

COMMENT: CAMPPPOINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
675.1	PLEISTOCENE		SILT	2.0	0.0
673.1	PLEISTOCENE		CLAY	10.0	2.0
663.1	PLEISTOCENE		UNCONSOLIDATED	27.0	12.0
636.1	CARBONDALE		BLACK SHALE	3.0	39.0
633.1	CARBONDALE		GRAY SHALE	17.0	42.0
616.1	CARBONDALE	COLCHESTER	COAL	2.3	59.0
613.8	CARBONDALE		UNDERCLAY	1.7	61.3
612.1	CARBONDALE		GRAY SHALE	5.0	63.0

MAPID: 00183752000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 0' N line, 330' W line of SW SW

QUADRANGLE: AUGUSTA LONGITUDE: -90.968 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.182545 DATE COLLECTED: 2 / 10 / 1976

SURFACE ELEVATION (FT.): 684.1 LOGGED (FT.): 65.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN451B WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.1	PLEISTOCENE		SILT	2.0	0.0
682.1	PLEISTOCENE		CLAY	14.0	2.0
668.1	PLEISTOCENE		UNCONSOLIDATED	10.0	16.0
658.1	CARBONDALE		SANDSTONE	13.0	26.0
645.1	CARBONDALE		BLACK SHALE	3.0	39.0
642.1	CARBONDALE		DARK SHALE	4.0	42.0
638.1	CARBONDALE		GRAY SHALE	15.0	46.0
623.1	CARBONDALE	COLCHESTER	COAL	2.1	61.0
621.0	CARBONDALE		UNDERCLAY	1.9	63.1

MAPID: 00183753000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 0' N line, 660' W line of SW SW

QUADRANGLE: AUGUSTA LONGITUDE: -90.966816 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.182521 DATE COLLECTED: 2 / 3 / 1976

SURFACE ELEVATION (FT.): 685.9 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN452 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.9	PLEISTOCENE		SILT	2.0	0.0
683.9	PLEISTOCENE		CLAY	16.0	2.0
667.9	PLEISTOCENE		UNCONSOLIDATED	20.0	18.0
647.9	CARBONDALE		BLACK SHALE	2.0	38.0
645.9	CARBONDALE		GRAY SHALE	18.0	40.0
627.9	CARBONDALE	COLCHESTER	COAL	2.3	58.0
625.6	CARBONDALE		UNDERCLAY	1.7	60.3
623.9	CARBONDALE		GRAY SHALE	6.0	62.0

MAPID: 00183754000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 0' N line, 20' E line of SW SW

QUADRANGLE: AUGUSTA LONGITUDE: -90.964497 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.182475 DATE COLLECTED: 2 / 3 / 1976

SURFACE ELEVATION (FT.): 681.3 LOGGED (FT.): 61.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN453 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.3	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0
678.3	PLEISTOCENE		CLAY	28.6	3.0
649.7	CARBONDALE		LIMESTONE	1.4	31.6
648.3	CARBONDALE		BLACK SHALE	2.5	33.0
645.8	CARBONDALE		GRAY SHALE	19.9	35.5
625.9	CARBONDALE	COLCHESTER	COAL	2.0	55.4
623.9	CARBONDALE		UNDERCLAY	3.6	57.4

MAPID: 00183755000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 0' N line, 660' E line of SE SW

QUADRANGLE: AUGUSTA LONGITUDE: -90.962035 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.182428 DATE COLLECTED: 2 / 5 / 1976

SURFACE ELEVATION (FT.): 688.1 LOGGED (FT.): 77.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN454 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.1	PLEISTOCENE		SILT	2.0	0.0
686.1	PLEISTOCENE		CLAY	12.0	2.0
674.1	PLEISTOCENE		UNCONSOLIDATED	20.0	14.0
654.1	CARBONDALE		GRAY SHALE	13.0	34.0
641.1	CARBONDALE		BLACK SHALE	4.0	47.0
637.1	CARBONDALE		GRAY SHALE	20.0	51.0
617.1	CARBONDALE	COLCHESTER	COAL	2.3	71.0
614.8	CARBONDALE		UNDERCLAY	1.7	73.3
613.1	CARBONDALE		GRAY SHALE	2.0	75.0

MAPID: 00183756000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 0' N line, 0' W line of SW SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.959663 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.182383 DATE COLLECTED: 2 / 5 / 1976

SURFACE ELEVATION (FT.): 683.5 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN455 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
683.5	PLEISTOCENE		SILT	2.0	0.0
681.5	PLEISTOCENE		CLAY	10.0	2.0
671.5	PLEISTOCENE		UNCONSOLIDATED	10.0	12.0
661.5	CARBONDALE		SANDSTONE	7.0	22.0 SOFT
654.5	CARBONDALE		GRAY SHALE	8.0	29.0
646.5	CARBONDALE		BLACK SHALE	3.0	37.0
643.5	CARBONDALE		GRAY SHALE	18.0	40.0
625.5	CARBONDALE	COLCHESTER	COAL	2.3	58.0
623.2	CARBONDALE		UNDERCLAY	1.7	60.3
621.5	CARBONDALE		GRAY SHALE	5.0	62.0

MAPID: 00183757000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 0' S line, 660' W line of NW SE
 QUADRANGLE: AUGUSTA LONGITUDE: -90.95729 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.182335 DATE COLLECTED: 2 / 6 / 1976
 SURFACE ELEVATION (FT.): 684.8 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN456 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.8	PLEISTOCENE		SILT	2.0	0.0	
682.8	PLEISTOCENE		CLAY	10.0	2.0	
672.8	PLEISTOCENE		UNCONSOLIDATED	15.0	12.0	
657.8	CARBONDALE		SANDSTONE	8.0	27.0	SOFT
649.8	CARBONDALE		GRAY SHALE	21.0	35.0	
628.8	CARBONDALE	COLCHESTER	COAL	2.2	56.0	
626.6	CARBONDALE		UNDERCLAY	1.8	58.2	
624.8	CARBONDALE		GRAY SHALE	7.0	60.0	

MAPID: 00183758000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 0' S line, 0' E line of NW SE
 QUADRANGLE: AUGUSTA LONGITUDE: -90.9549 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.18229 DATE COLLECTED: 2 / 9 / 1976
 SURFACE ELEVATION (FT.): 688.5 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN457 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.5	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0	
684.5	PLEISTOCENE		CLAY	28.8	4.0	BROWN
655.7	PLEISTOCENE		UNKNOWN	0.6	32.8	
655.1	PLEISTOCENE		CLAY	2.6	33.4	BROWN
652.5	CARBONDALE		GRAY SHALE	23.8	36.0	
628.7	CARBONDALE	COLCHESTER	COAL	1.8	59.8	
626.9	CARBONDALE		UNDERCLAY	3.4	61.6	
623.5	CARBONDALE		GRAY SHALE	3.0	65.0	

MAPID: 00183759000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 0' N line, 660' E line of SE SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.95251 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.182242 DATE COLLECTED: 2 / 9 / 1976

SURFACE ELEVATION (FT.): 679.2 LOGGED (FT.): 58.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN458 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
679.2	PLEISTOCENE		UNCONSOLIDATED	7.0	0.0	
672.2	PLEISTOCENE		CLAY	10.0	7.0	BROWN
662.2	PLEISTOCENE		UNKNOWN	2.0	17.0	DRILLER REPORTS BROWN SANDSTONE
660.2	PLEISTOCENE		CLAY	3.5	19.0	BROWN
656.7	CARBONDALE		GRAY SHALE	23.7	22.5	
633.0	CARBONDALE	COLCHESTER	COAL	2.0	46.2	
631.0	CARBONDALE		UNDERCLAY	2.8	48.2	
628.2	CARBONDALE		GRAY SHALE	7.0	51.0	

MAPID: 00183761000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' N line, 35' W line of NW SW

QUADRANGLE: AUGUSTA LONGITUDE: -90.969015 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.184428 DATE COLLECTED: 2 / 9 / 1976

SURFACE ELEVATION (FT.): 680.7 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN476 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.7	PLEISTOCENE		SILT	1.0	0.0	
679.7	PLEISTOCENE		CLAY	5.0	1.0	
674.7	PLEISTOCENE		UNCONSOLIDATED	14.0	6.0	
660.7	CARBONDALE		SANDSTONE	16.0	20.0	
644.7	CARBONDALE		UNKNOWN	2.0	36.0	DRILLER REPORTS SAND
642.7	CARBONDALE		BLACK SHALE	2.0	38.0	
640.7	CARBONDALE		LIMESTONE	2.5	40.0	
638.2	CARBONDALE		GRAY SHALE	14.5	42.5	
623.7	CARBONDALE	COLCHESTER	COAL	2.4	57.0	
621.3	CARBONDALE		UNDERCLAY	3.6	59.4	
617.7	CARBONDALE		MICACEOUS SHALE	5.0	63.0	

MAPID: 00183762000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' N line, 660' W line of NW SW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.966768 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.184387 DATE COLLECTED: 2 / 9 / 1976
 SURFACE ELEVATION (FT.): 681.6 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN477 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.6	PLEISTOCENE		SILT	1.0	0.0	
680.6	PLEISTOCENE		CLAY	5.0	1.0	
675.6	PLEISTOCENE		UNCONSOLIDATED	12.5	6.0	
663.1	CARBONDALE		SANDSTONE	19.5	18.5	SOFT
643.6	CARBONDALE		BLACK SHALE	3.0	38.0	
640.6	CARBONDALE		DARK SHALE	3.0	41.0	
637.6	CARBONDALE		GRAY SHALE	15.0	44.0	
622.6	CARBONDALE	COLCHESTER	COAL	2.3	59.0	
620.3	CARBONDALE		UNDERCLAY	3.7	61.3	
616.6	CARBONDALE		MICACEOUS SHALE	3.0	65.0	

MAPID: 00183763000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' N line, 660' E line of NE SW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.96201 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.184302 DATE COLLECTED: 2 / 4 / 1976
 SURFACE ELEVATION (FT.): 681.2 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN479 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.2	PLEISTOCENE		SILT	1.0	0.0	
680.2	PLEISTOCENE		CLAY	5.0	1.0	
675.2	PLEISTOCENE		UNCONSOLIDATED	21.0	6.0	
654.2	CARBONDALE		GRAY SHALE	3.0	27.0	
651.2	CARBONDALE		LIMESTONE	3.0	30.0	
648.2	CARBONDALE		BLACK SHALE	2.0	33.0	
646.2	CARBONDALE		DARK SHALE	2.0	35.0	
644.2	CARBONDALE		GRAY SHALE	20.0	37.0	
624.2	CARBONDALE	COLCHESTER	COAL	2.3	57.0	
621.9	CARBONDALE		UNDERCLAY	3.7	59.3	
618.2	CARBONDALE		MICACEOUS SHALE	5.0	63.0	

MAPID: 00183764000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' N line, 20' W line of NW SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.959562 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.184258 DATE COLLECTED: 2 / 10 / 1976

SURFACE ELEVATION (FT.): 689.7 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN480 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.7	PLEISTOCENE		SILT	1.0	0.0	
688.7	PLEISTOCENE		CLAY	5.0	1.0	
683.7	PLEISTOCENE		UNCONSOLIDATED	20.0	6.0	
663.7	CARBONDALE		SANDY SHALE	13.0	26.0	
650.7	CARBONDALE		BLACK SHALE	2.0	39.0	LIMY
648.7	CARBONDALE		LIMESTONE	1.0	41.0	
647.7	CARBONDALE		DARK SHALE	3.0	42.0	
644.7	CARBONDALE		GRAY SHALE	18.0	45.0	
626.7	CARBONDALE	COLCHESTER	COAL	2.4	63.0	
624.3	CARBONDALE		UNDERCLAY	3.6	65.4	
620.7	CARBONDALE		MICACEOUS SHALE	9.0	69.0	

MAPID: 00183766000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 0' N line, 35' W line of NW SW

QUADRANGLE: AUGUSTA LONGITUDE: -90.96897 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.186248 DATE COLLECTED: 2 / 2 / 1976

SURFACE ELEVATION (FT.): 688.8 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN501 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.8	PLEISTOCENE		SILT	2.0	0.0	
686.8	PLEISTOCENE		CLAY	12.0	2.0	
674.8	PLEISTOCENE		SANDY CLAY	14.0	14.0	
660.8	CARBONDALE		SANDSTONE	25.0	28.0	
635.8	CARBONDALE		BLACK SHALE	3.0	53.0	
632.8	CARBONDALE		GRAY SHALE	20.0	56.0	
612.8	CARBONDALE	COLCHESTER	COAL	2.4	76.0	
610.4	CARBONDALE		UNDERCLAY	1.6	78.4	
608.8	CARBONDALE		GRAY SHALE	8.0	80.0	

MAPID: 00183767000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 95' S line, 330' W line of SW NW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.967903 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.18649 DATE COLLECTED: 2 / 9 / 1976
 SURFACE ELEVATION (FT.): 681.2 LOGGED (FT.): 73.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN501BC WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.2	PLEISTOCENE		SILT	2.0	0.0
679.2	PLEISTOCENE		CLAY	10.0	2.0
669.2	PLEISTOCENE		UNCONSOLIDATED	12.0	12.0
657.2	CARBONDALE		SANDSTONE	21.0	24.0
636.2	CARBONDALE		BLACK SHALE	3.0	45.0
633.2	CARBONDALE		DARK SHALE	4.0	48.0
629.2	CARBONDALE		GRAY SHALE	18.5	52.0
610.7	CARBONDALE	COLCHESTER	COAL	2.0	70.5
608.7	CARBONDALE		UNDERCLAY	0.5	72.5

MAPID: 00183768000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 0' N line, 660' W line of NW SW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.96672 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.186206 DATE COLLECTED: 2 / 3 / 1976
 SURFACE ELEVATION (FT.): 674.6 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN502 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
674.6	PLEISTOCENE		SILT	1.0	0.0
673.6	PLEISTOCENE		CLAY	3.0	1.0
670.6	PLEISTOCENE		UNCONSOLIDATED	8.0	4.0
662.6	CARBONDALE		SANDSTONE	23.0	12.0
639.6	CARBONDALE		BLACK SHALE	3.0	35.0
636.6	CARBONDALE		DARK SHALE	2.0	38.0
634.6	CARBONDALE		LIMESTONE	1.0	40.0
633.6	CARBONDALE		GRAY SHALE	18.0	41.0
615.6	CARBONDALE	COLCHESTER	COAL	2.2	59.0
613.4	CARBONDALE		UNDERCLAY	3.8	61.2
609.6	CARBONDALE		GRAY SHALE	3.0	65.0

MAPID: 00183769000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 0' N line, 15' E line of NW SW

QUADRANGLE: AUGUSTA LONGITUDE: -90.964406 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.186166 DATE COLLECTED: 2 / 3 / 1976

SURFACE ELEVATION (FT.): 687.9 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN503 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.9	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
679.9	PLEISTOCENE		CLAY	22.0	8.0	BROWN
657.9	PLEISTOCENE		CLAY	12.0	30.0	GREY
645.9	CARBONDALE		BLACK SHALE	5.0	42.0	
640.9	CARBONDALE		GRAY SHALE	17.0	47.0	
623.9	CARBONDALE	COLCHESTER	COAL	2.2	64.0	
621.7	CARBONDALE		UNDERCLAY	1.8	66.2	
619.9	CARBONDALE		GRAY SHALE	10.0	68.0	

MAPID: 00183770000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 0' N line, 10' E line of NE SW

QUADRANGLE: AUGUSTA LONGITUDE: -90.959643 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.186079 DATE COLLECTED: 2 / 5 / 1976

SURFACE ELEVATION (FT.): 681.2 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN503 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.2	PLEISTOCENE		SILT	1.0	0.0	
680.2	PLEISTOCENE		CLAY	5.0	1.0	
675.2	PLEISTOCENE		UNCONSOLIDATED	8.0	6.0	
667.2	CARBONDALE		SANDSTONE	15.0	14.0	SOFT
652.2	CARBONDALE		LIMESTONE	1.0	29.0	
651.2	CARBONDALE		GRAY SHALE	1.0	30.0	
650.2	CARBONDALE		BLACK SHALE	1.5	31.0	
648.7	CARBONDALE		DARK SHALE	3.5	32.5	
645.2	CARBONDALE		GRAY SHALE	22.0	36.0	
623.2	CARBONDALE	COLCHESTER	COAL	2.6	58.0	
620.6	CARBONDALE		UNDERCLAY	3.3	60.6	
617.3	CARBONDALE		MICACEOUS SHALE	4.1	63.9	

MAPID: 00183771000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 0' N line, 660' W line of NW SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.957235 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.186036 DATE COLLECTED: 2 / 10 / 1976

SURFACE ELEVATION (FT.): 683.0 LOGGED (FT.): 48.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN506 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.0	PLEISTOCENE		SILT	1.0	0.0	
682.0	PLEISTOCENE		CLAY	5.0	1.0	
677.0	PLEISTOCENE		UNCONSOLIDATED	6.0	6.0	
671.0			SANDSTONE	18.0	12.0	SOFT
653.0			LIMESTONE	2.0	30.0	
651.0			BLACK SHALE	2.0	32.0	
649.0			DARK SHALE	4.0	34.0	
645.0			GRAY SHALE	10.0	38.0	

MAPID: 00183776000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 330' N line, 660' W line of SW NW

QUADRANGLE: AUGUSTA LONGITUDE: -90.966653 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.188984 DATE COLLECTED: 2 / 3 / 1976

SURFACE ELEVATION (FT.): 685.2 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN527C WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
685.2	PLEISTOCENE		SILT	1.0	0.0	
684.2	PLEISTOCENE		CLAY	8.0	1.0	
676.2	PLEISTOCENE		SANDY CLAY	15.0	9.0	
661.2	CARBONDALE		SANDSTONE	20.0	24.0	
641.2	CARBONDALE		BLACK SHALE	3.0	44.0	
638.2	CARBONDALE		GRAY SHALE	17.0	47.0	
621.2	CARBONDALE	COLCHESTER	COAL	2.3	64.0	
618.9	CARBONDALE		UNDERCLAY	3.7	66.3	
615.2	CARBONDALE		MICACEOUS SHALE	8.0	70.0	

MAPID: 00183777000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 330' N line, 25' W line of SE NW

QUADRANGLE: AUGUSTA LONGITUDE: -90.964205 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.188942 DATE COLLECTED: 2 / 3 / 1976

SURFACE ELEVATION (FT.): 666.3 LOGGED (FT.): 61.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN528C WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.3	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0	
663.3	PLEISTOCENE		CLAY	9.0	3.0	BROWN
654.3	CARBONDALE		SANDSTONE	15.0	12.0	
639.3	CARBONDALE		LIMESTONE	1.7	27.0	
637.6	CARBONDALE		BLACK SHALE	3.1	28.7	
634.5	CARBONDALE		GRAY SHALE	19.7	31.8	
614.8	CARBONDALE	COLCHESTER	COAL	2.0	51.5	
612.8	CARBONDALE		UNDERCLAY	2.5	53.5	
610.3	CARBONDALE		GRAY SHALE	5.0	56.0	

MAPID: 00183778000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' N line, 660' E line of SE NW

QUADRANGLE: AUGUSTA LONGITUDE: -90.961954 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.187996 DATE COLLECTED: 2 / 11 / 1976

SURFACE ELEVATION (FT.): 687.1 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN529 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.1	PLEISTOCENE		SILT	1.0	0.0	
686.1	PLEISTOCENE		CLAY	5.0	1.0	
681.1	PLEISTOCENE		UNCONSOLIDATED	20.0	6.0	
661.1	CARBONDALE		SANDSTONE	13.0	26.0	
648.1	CARBONDALE		LIMESTONE	1.0	39.0	
647.1	CARBONDALE		BLACK SHALE	1.0	40.0	
646.1	CARBONDALE		LIMESTONE	3.0	41.0	
643.1	CARBONDALE		DARK SHALE	4.0	44.0	
639.1	CARBONDALE		GRAY SHALE	15.0	48.0	
624.1	CARBONDALE	COLCHESTER	COAL	2.3	63.0	
621.8	CARBONDALE		UNDERCLAY	2.7	65.3	

MAPID: 00183779000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' N line, 15' W line of SW NE

QUADRANGLE: AUGUSTA LONGITUDE: -90.959528 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.187957 DATE COLLECTED: 2 / 5 / 1976

SURFACE ELEVATION (FT.): 674.5 LOGGED (FT.): 58.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN530 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
674.5	PLEISTOCENE		SILT	1.0	0.0
673.5	PLEISTOCENE		CLAY	5.0	1.0
668.5	PLEISTOCENE		UNCONSOLIDATED	4.0	6.0
664.5	CARBONDALE		SANDSTONE	16.0	10.0
648.5	CARBONDALE		BLACK SHALE	2.0	26.0
646.5	CARBONDALE		DARK SHALE	4.0	28.0
642.5	CARBONDALE		GRAY SHALE	18.0	32.0
624.5	CARBONDALE	COLCHESTER	COAL	2.4	50.0
622.1	CARBONDALE		UNDERCLAY	3.6	52.4
618.5	CARBONDALE		MICACEOUS SHALE	2.0	56.0

MAPID: 00183780000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 330' N line, 10' W line of SW NE

QUADRANGLE: AUGUSTA LONGITUDE: -90.959532 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.188865 DATE COLLECTED: 2 / 10 / 1976

SURFACE ELEVATION (FT.): 678.3 LOGGED (FT.): 58.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN530C WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
678.3	PLEISTOCENE		SILT	2.0	0.0
676.3	PLEISTOCENE		CLAY	9.0	2.0
667.3	CARBONDALE		SANDSTONE	19.0	11.0 SOFT
648.3	CARBONDALE		BLACK SHALE	3.5	30.0
644.8	CARBONDALE		GRAY SHALE	20.5	33.5
624.3	CARBONDALE	COLCHESTER	COAL	2.2	54.0
622.1	CARBONDALE		UNDERCLAY	1.8	56.2

MAPID: 00183781000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' N line, 660' W line of SW NE

QUADRANGLE: AUGUSTA LONGITUDE: -90.957209 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.187916 DATE COLLECTED: 2 / 10 / 1976

SURFACE ELEVATION (FT.): 680.1 LOGGED (FT.): 59.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN531 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.1	PLEISTOCENE		SILT	1.0	0.0	
679.1	PLEISTOCENE		CLAY	5.0	1.0	
674.1	PLEISTOCENE		UNCONSOLIDATED	7.0	6.0	
667.1	CARBONDALE		SANDSTONE	16.5	13.0	SOFT
650.6	CARBONDALE		BLACK SHALE	2.5	29.5	
648.1	CARBONDALE		DARK SHALE	4.0	32.0	
644.1	CARBONDALE		GRAY SHALE	18.0	36.0	
626.1	CARBONDALE	COLCHESTER	COAL	2.3	54.0	
623.8	CARBONDALE		UNDERCLAY	1.7	56.3	
622.1	CARBONDALE		MICACEOUS SHALE	1.0	58.0	

MAPID: 00183782000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' N line, 0' W line of SE NE

QUADRANGLE: AUGUSTA LONGITUDE: -90.954848 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.187879 DATE COLLECTED: 2 / 11 / 1976

SURFACE ELEVATION (FT.): 677.8 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN532 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.8	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
669.8	PLEISTOCENE		CLAY	6.0	8.0	BROWN
663.8	PLEISTOCENE		SAND	3.0	14.0	
660.8	CARBONDALE		SANDSTONE	6.0	17.0	
654.8	CARBONDALE		LIMESTONE	2.0	23.0	
652.8	CARBONDALE		DARK SHALE	4.0	25.0	
648.8	CARBONDALE		GRAY SHALE	20.5	29.0	
628.3	CARBONDALE	COLCHESTER	COAL	2.1	49.5	
626.2	CARBONDALE		UNDERCLAY	2.4	51.6	
623.8	CARBONDALE		GRAY SHALE	11.0	54.0	
612.8	CARBONDALE		LIMESTONE	3.0	65.0	

MAPID: 00183783000C VERSION: 1

PROJECT: NCRDS02

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

QUADRANGLE: AUGUSTA LONGITUDE: -90.961927 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.189815 DATE COLLECTED: 2 / 10 / 1976

SURFACE ELEVATION (FT.): 677.7 LOGGED (FT.): 58.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN554 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
677.7	PLEISTOCENE		SILT	1.0	0.0
676.7	PLEISTOCENE		CLAY	5.0	1.0
671.7	PLEISTOCENE		UNCONSOLIDATED	7.0	6.0
664.7	CARBONDALE		SANDSTONE	24.5	13.0 SOFT
640.2	CARBONDALE		BLACK SHALE	1.5	37.5
638.7	CARBONDALE		DARK SHALE	2.0	39.0
636.7	CARBONDALE		GRAY SHALE	12.5	41.0
624.2	CARBONDALE	COLCHESTER	COAL	2.3	53.5
621.9	CARBONDALE		UNDERCLAY	1.2	55.8
620.7	CARBONDALE		MICACEOUS SHALE	1.0	57.0

MAPID: 00183784000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 15' S line, 15' W line of NE NE

QUADRANGLE: AUGUSTA LONGITUDE: -90.954779 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.189737 DATE COLLECTED: 2 / 9 / 1976

SURFACE ELEVATION (FT.): 674.1 LOGGED (FT.): 58.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN557 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
674.1	PLEISTOCENE		SILT	1.0	0.0
673.1	PLEISTOCENE		CLAY	5.0	1.0
668.1	PLEISTOCENE		SANDY CLAY	29.0	6.0
639.1	CARBONDALE		GRAY SHALE	11.5	35.0
627.6	CARBONDALE	COLCHESTER	COAL	2.2	46.5
625.4	CARBONDALE		UNDERCLAY	3.3	48.7
622.1	CARBONDALE		MICACEOUS SHALE	6.0	52.0

MAPID: 00183785000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 25' S line, 20' E line of NE NE

QUADRANGLE: AUGUSTA LONGITUDE: -90.950179 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.189689 DATE COLLECTED: 2 / 9 / 1976

SURFACE ELEVATION (FT.): 680.3 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN559 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.3	PLEISTOCENE		SILT	1.0	0.0
679.3	PLEISTOCENE		CLAY	5.0	1.0
674.3	PLEISTOCENE		SANDY CLAY	35.5	6.0
638.8	CARBONDALE		GRAY SHALE	14.0	41.5
624.8	CARBONDALE	COLCHESTER	COAL	2.4	55.5
622.4	CARBONDALE		UNDERCLAY	3.1	57.9
619.3	CARBONDALE		MICACEOUS SHALE	7.0	61.0

MAPID: 00183786000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' N line, 0' W line of NW NE

QUADRANGLE: AUGUSTA LONGITUDE: -90.959526 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.191655 DATE COLLECTED: 2 / 10 / 1976

SURFACE ELEVATION (FT.): 678.4 LOGGED (FT.): 67.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN580 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
678.4	PLEISTOCENE		SILT	2.0	0.0
676.4	PLEISTOCENE		CLAY	14.0	2.0
662.4	PLEISTOCENE		UNCONSOLIDATED	8.0	16.0
654.4	CARBONDALE		SANDSTONE	8.0	24.0 SOFT
646.4	CARBONDALE		BLACK SHALE	3.0	32.0
643.4	CARBONDALE		GRAY SHALE	18.0	35.0
625.4	CARBONDALE	COLCHESTER	COAL	2.3	53.0
623.1	CARBONDALE		UNDERCLAY	1.7	55.3
621.4	CARBONDALE		GRAY SHALE	10.0	57.0

MAPID: 00183787000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' N line, 330' W line of NW NE
 QUADRANGLE: AUGUSTA LONGITUDE: -90.958342 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.191637 DATE COLLECTED: 2 / 11 / 1976
 SURFACE ELEVATION (FT.): 671.7 LOGGED (FT.): 48.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN580B WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
671.7	PLEISTOCENE		SILT	2.0	0.0
669.7	PLEISTOCENE		CLAY	14.0	2.0
655.7	PLEISTOCENE		UNCONSOLIDATED	23.0	16.0
632.7	PLEISTOCENE		SAND	2.0	39.0
630.7	CARBONDALE		GRAY SHALE	2.0	41.0
628.7	CARBONDALE	COLCHESTER	COAL	2.0	43.0
626.7	CARBONDALE		UNDERCLAY	3.0	45.0

MAPID: 00183788000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' S line, 25' W line of NE NE
 QUADRANGLE: AUGUSTA LONGITUDE: -90.954726 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.191515 DATE COLLECTED: 2 / 9 / 1976
 SURFACE ELEVATION (FT.): 659.1 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN582 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
659.1	PLEISTOCENE		SILT	1.0	0.0
658.1	PLEISTOCENE		CLAY	5.0	1.0
653.1	PLEISTOCENE		UNCONSOLIDATED	13.0	6.0
640.1	CARBONDALE		GRAY SHALE	6.5	19.0
633.6	CARBONDALE	COLCHESTER	COAL	2.3	25.5
631.3	CARBONDALE		UNDERCLAY	3.2	27.8
628.1	CARBONDALE		MICACEOUS SHALE	7.0	31.0
621.1	CARBONDALE		SANDY SHALE	25.0	38.0
596.1	CARBONDALE		LIMESTONE	5.0	63.0

MAPID: 00183789000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' S line, 660' W line of NE NE

QUADRANGLE: AUGUSTA LONGITUDE: -90.95244 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.19148 DATE COLLECTED: 2 / 10 / 1976

SURFACE ELEVATION (FT.): 680.8 LOGGED (FT.): 52.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN583 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.8	PLEISTOCENE		SILT	1.0	0.0
679.8	PLEISTOCENE		CLAY	5.0	1.0
674.8	PLEISTOCENE		UNCONSOLIDATED	27.5	6.0
647.3	CARBONDALE		GRAY SHALE	15.0	33.5
632.3	CARBONDALE	COLCHESTER	COAL	2.2	48.5
630.1	CARBONDALE		UNDERCLAY	1.3	50.7

MAPID: 00183790000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 660' S line, 20' E line of NE NE

QUADRANGLE: AUGUSTA LONGITUDE: -90.950172 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.191441 DATE COLLECTED: 2 / 9 / 1976

SURFACE ELEVATION (FT.): 658.4 LOGGED (FT.): 58.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN584 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
658.4	PLEISTOCENE		SILT	1.0	0.0
657.4	PLEISTOCENE		CLAY	5.0	1.0
652.4	PLEISTOCENE		UNCONSOLIDATED	12.0	6.0
640.4	PLEISTOCENE		SAND & GRAVEL	4.0	18.0
636.4	CARBONDALE		GRAY SHALE	19.5	22.0
616.9	CARBONDALE	COLCHESTER	COAL	2.3	41.5
614.6	CARBONDALE		UNDERCLAY	3.2	43.8
611.4	CARBONDALE		MICACEOUS SHALE	11.0	47.0

MAPID: 00183791000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 3 QUARTERS/FOOTAGES: 30' N line, 50' E line of SE NW

QUADRANGLE: AUGUSTA LONGITUDE: -90.959737 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.189696 DATE COLLECTED: 2 / 5 / 1976

SURFACE ELEVATION (FT.): 680.3 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN555 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.3	PLEISTOCENE		SILT	1.0	0.0
679.3	PLEISTOCENE		CLAY	5.0	1.0
674.3	PLEISTOCENE		UNCONSOLIDATED	8.0	6.0
666.3	CARBONDALE		SANDSTONE	14.5	14.0
651.8	CARBONDALE		BLACK SHALE	3.0	28.5
648.8	CARBONDALE		DARK SHALE	3.0	31.5
645.8	CARBONDALE		GRAY SHALE	19.0	34.5
626.8	CARBONDALE	COLCHESTER	COAL	2.5	53.5
624.3	CARBONDALE		UNDERCLAY	3.0	56.0
621.3	CARBONDALE		MICACEOUS SHALE	9.0	59.0

MAPID: 00122550000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 4 QUARTERS/FOOTAGES: 10' S line, 100' E line

QUADRANGLE: AUGUSTA LONGITUDE: -90.96964 GEOLOGIST: KOROSE

CONFIDENTIAL: N LATITUDE: 40.17892 DATE COLLECTED: 7 / 7 / 1967

SURFACE ELEVATION (FT.): 657.0 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: PITTSBURG & MIDWAY 5-C WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
657.0	PLEISTOCENE		CLAY	26.0	0.0
631.0	PLEISTOCENE		GRAVEL	19.0	26.0
612.0			SHALE	5.0	45.0
607.0			SANDSTONE	5.0	50.0
602.0			SHALE	13.0	55.0
589.0			SANDSTONE	2.0	68.0

MAPID: 00122551000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 4 QUARTERS/FOOTAGES: 2640' S line, 10' E line
 QUADRANGLE: AUGUSTA LONGITUDE: -90.969134 GEOLOGIST: KOROSE
 CONFIDENTIAL: N LATITUDE: 40.186163 DATE COLLECTED: 7 / 12 / 1967
 SURFACE ELEVATION (FT.): 688.0 LOGGED (FT.): 79.0 LOG TYPE: Drillers Log
 SOURCE: PITTSBURG & MIDWAY 19-P WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.0	PLEISTOCENE		SANDY CLAY	27.0	0.0	
661.0	CARBONDALE		SANDSTONE	21.5	27.0	BROWN
639.5	CARBONDALE	OAK GROVE	LIMESTONE	2.3	48.5	
637.2	CARBONDALE		GRAY SHALE	1.3	50.8	
636.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.5	52.0	
633.5	CARBONDALE	FRANCIS CREEK	GRAY SHALE	20.0	54.5	
613.5	CARBONDALE	COLCHESTER	COAL	2.5	74.5	
611.0			UNDERCLAY	2.0	77.0	

MAPID: 00169136000C VERSION: 1

PROJECT: NCRDS99

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 4 QUARTERS/FOOTAGES: SE NE SE NE
 QUADRANGLE: AUGUSTA LONGITUDE: -90.969631 GEOLOGIST: J MCBETH
 CONFIDENTIAL: N LATITUDE: 40.188563 DATE COLLECTED: 6 / 0 / 1961
 SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 56.3 LOG TYPE: Measured section
 SOURCE: DL REINERTSEN WELL TYPE: Outcrop
 COMMENT: FROM FIELD NOTED;OUTCROP;SURELV EST'D

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
616.0	CARBONDALE	COLCHESTER	COAL	2.3	54.0	ELEVATION OF COAL = 616 FEET

MAPID: 00183703000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 4 QUARTERS/FOOTAGES: 35' S line, 25' W line of SE SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.973907 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.179071 DATE COLLECTED: 3 / 18 / 1976

SURFACE ELEVATION (FT.): 663.8 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log

SOURCE: AMAX CM423 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
663.8	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0
658.8	PLEISTOCENE		CLAY	10.0	5.0
648.8	PLEISTOCENE		UNCONSOLIDATED	13.0	15.0
635.8	PLEISTOCENE		SAND & GRAVEL	24.0	28.0
611.8	CARBONDALE		GRAY SHALE	15.0	52.0
596.8	CARBONDALE	COLCHESTER	COAL	1.5	67.0
595.3	CARBONDALE		UNDERCLAY	1.5	68.5
593.8	CARBONDALE		GRAY SHALE	7.0	70.0
586.8	CARBONDALE		LIMESTONE	4.0	77.0

MAPID: 00183704000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 4 QUARTERS/FOOTAGES: 20' N line, 640' W line of NE SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.971547 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.18624 DATE COLLECTED: 3 / 22 / 1976

SURFACE ELEVATION (FT.): 681.6 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: AMAX CM424-1 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.6	PLEISTOCENE		SILT	1.0	0.0
680.6	PLEISTOCENE		CLAY	5.0	1.0
675.6	PLEISTOCENE		SANDY CLAY	13.0	6.0
662.6	PLEISTOCENE		SAND & GRAVEL	12.0	19.0
650.6	PLEISTOCENE		SANDY CLAY	21.0	31.0
629.6	CARBONDALE		GRAY SHALE	11.0	52.0
618.6	CARBONDALE		LIMESTONE	1.0	63.0
617.6	CARBONDALE		GRAY SHALE	1.0	64.0
616.6	CARBONDALE	COLCHESTER	COAL	2.3	65.0
614.3	CARBONDALE		UNDERCLAY	1.7	67.3
612.6	CARBONDALE		GRAY SHALE	9.0	69.0

MAPID: 00183705000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 4 QUARTERS/FOOTAGES: 0' N line, 660' W line of SE SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.971549 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.182611 DATE COLLECTED: 3 / 18 / 1976

SURFACE ELEVATION (FT.): 682.8 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: AMAX CM424 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
682.8	PLEISTOCENE		SILT	1.0	0.0
681.8	PLEISTOCENE		CLAY	9.0	1.0
672.8	PLEISTOCENE		SANDY CLAY	14.0	10.0
658.8	CARBONDALE		SANDSTONE	28.0	24.0
630.8	CARBONDALE		BLACK SHALE	3.0	52.0
627.8	CARBONDALE		DARK SHALE	2.0	55.0
625.8	CARBONDALE		GRAY SHALE	14.0	57.0
611.8	CARBONDALE	COLCHESTER	COAL	2.2	71.0
609.6	CARBONDALE		UNDERCLAY	1.8	73.2
607.8	CARBONDALE		GRAY SHALE	3.0	75.0

MAPID: 00183706000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 4 QUARTERS/FOOTAGES: 660' S line, 25' W line of SE SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.973871 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.180794 DATE COLLECTED: 3 / 18 / 1976

SURFACE ELEVATION (FT.): 680.3 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log

SOURCE: AMAX CM448 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.3	PLEISTOCENE		SILT	1.0	0.0
679.3	PLEISTOCENE		CLAY	9.0	1.0
670.3	PLEISTOCENE		SANDY CLAY	62.0	10.0
608.3			MICACEOUS SHALE	12.0	72.0
596.3			LIMESTONE	1.0	84.0

MAPID: 00183707000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 4 QUARTERS/FOOTAGES: 660' S line, 660' W line of SE SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.971589 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.18075 DATE COLLECTED: 3 / 22 / 1976

SURFACE ELEVATION (FT.): 667.3 LOGGED (FT.): 53.0 LOG TYPE: Drillers Log

SOURCE: AMAX CM449 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
667.3	PLEISTOCENE		CLAY	12.0	0.0
655.3	PLEISTOCENE		UNCONSOLIDATED	33.0	12.0
622.3	CARBONDALE		GRAY SHALE	3.0	45.0
619.3	CARBONDALE	COLCHESTER	COAL	1.9	48.0
617.4	CARBONDALE		UNDERCLAY	1.1	49.9
616.3	CARBONDALE		GRAY SHALE	2.0	51.0

MAPID: 00183708000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 4 QUARTERS/FOOTAGES: 0' N line, 20' W line of SE SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.97385 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.182654 DATE COLLECTED: 3 / 22 / 1976

SURFACE ELEVATION (FT.): 654.5 LOGGED (FT.): 48.0 LOG TYPE: Drillers Log

SOURCE: AMAX CM473 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
654.5	PLEISTOCENE		CLAY	10.0	0.0
644.5	PLEISTOCENE		UNCONSOLIDATED	13.0	10.0
631.5	CARBONDALE		GRAY SHALE	15.0	23.0
616.5	CARBONDALE	COLCHESTER	COAL	2.1	38.0
614.4	CARBONDALE		UNDERCLAY	1.9	40.1
612.5	CARBONDALE		GRAY SHALE	6.0	42.0

MAPID: 00183709000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 4 QUARTERS/FOOTAGES: 565' S line, 660' W line of NE SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.971517 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.184171 DATE COLLECTED: 3 / 22 / 1976

SURFACE ELEVATION (FT.): 675.8 LOGGED (FT.): 70.0 LOG TYPE: Drillers Log

SOURCE: AMAX CM474DC WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
675.8	PLEISTOCENE		SILT	1.0	0.0
674.8	PLEISTOCENE		CLAY	9.0	1.0
665.8	PLEISTOCENE		UNCONSOLIDATED	18.0	10.0
647.8	CARBONDALE		SANDSTONE	21.0	28.0
626.8	CARBONDALE		LIMESTONE	1.0	49.0
625.8	CARBONDALE		BLACK SHALE	3.5	50.0
622.3	CARBONDALE		DARK SHALE	2.5	53.5
619.8	CARBONDALE		GRAY SHALE	11.0	56.0
608.8	CARBONDALE	COLCHESTER	COAL	2.0	67.0
606.8	CARBONDALE		UNDERCLAY	1.0	69.0

MAPID: 00183711000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 4 QUARTERS/FOOTAGES: 660' N line, 15' W line of NE SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.973828 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.184518 DATE COLLECTED: 3 / 22 / 1976

SURFACE ELEVATION (FT.): 660.2 LOGGED (FT.): 48.0 LOG TYPE: Drillers Log

SOURCE: AMAX CM498 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
660.2	PLEISTOCENE		SILT	1.0	0.0
659.2	PLEISTOCENE		CLAY	4.0	1.0
655.2	CARBONDALE		SANDSTONE	10.0	5.0
645.2	CARBONDALE		GRAY SHALE	2.0	15.0
643.2	CARBONDALE		LIMESTONE	3.0	17.0
640.2	CARBONDALE		BLACK SHALE	2.0	20.0
638.2	CARBONDALE		LIMESTONE	1.5	22.0
636.7	CARBONDALE		DARK SHALE	2.5	23.5
634.2	CARBONDALE		GRAY SHALE	13.5	26.0
620.7	CARBONDALE	COLCHESTER	COAL	2.2	39.5
618.5	CARBONDALE		UNDERCLAY	2.3	41.7
616.2	CARBONDALE		MICACEOUS SHALE	4.0	44.0

MAPID: 00183715000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 4 QUARTERS/FOOTAGES: 15' N line, 20' W line of NE SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.973775 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.186296 DATE COLLECTED: 3 / 22 / 1976

SURFACE ELEVATION (FT.): 682.0 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log

SOURCE: AMAX CM523 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
682.0	PLEISTOCENE		SILT	1.0	0.0
681.0	PLEISTOCENE		CLAY	7.0	1.0
674.0	PLEISTOCENE		UNCONSOLIDATED	22.0	8.0
652.0	CARBONDALE		SANDSTONE	14.0	30.0
638.0	CARBONDALE		GRAY SHALE	1.5	44.0
636.5	CARBONDALE		LIMESTONE	3.0	45.5
633.5	CARBONDALE		BLACK SHALE	2.0	48.5
631.5	CARBONDALE		DARK SHALE	2.5	50.5
629.0	CARBONDALE		GRAY SHALE	16.0	53.0
613.0	CARBONDALE	COLCHESTER	COAL	2.2	69.0
610.8	CARBONDALE		UNDERCLAY	2.8	71.2

MAPID: 00183716000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 4 QUARTERS/FOOTAGES: 35' S line, 590' W line of SE SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.971877 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.179033 DATE COLLECTED: 3 / 22 / 1976

SURFACE ELEVATION (FT.): 645.5 LOGGED (FT.): 38.0 LOG TYPE: Drillers Log

SOURCE: AMAX CM523PB WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
645.5	PLEISTOCENE		SILT	9.0	0.0 AND CLAY
636.5	CARBONDALE		BLACK SHALE	3.0	9.0
633.5	CARBONDALE		DARK SHALE	2.0	12.0
631.5	CARBONDALE		GRAY SHALE	18.0	14.0
613.5	CARBONDALE	COLCHESTER	COAL	2.4	32.0
611.1	CARBONDALE		UNDERCLAY	3.6	34.4

MAPID: 00183710000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: ADAMS **TWP/RNG:** 2N 5W **SECTION:** 6 **QUARTERS/FOOTAGES:** 660' N line, 0' W line of NE SE
QUADRANGLE: BOWEN **LONGITUDE:** -91.012275 **GEOLOGIST:** PHILLIPS
CONFIDENTIAL: N **LATITUDE:** 40.185217 **DATE COLLECTED:** 3 / 23 / 1976
SURFACE ELEVATION (FT.): 678.4 **LOGGED (FT.):** 100.0 **LOG TYPE:** Drillers Log
SOURCE: AMAX CM482 **WELL TYPE:** Coal Test
COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
678.4	PLEISTOCENE		SILT	2.0	0.0
676.4	PLEISTOCENE		CLAY	10.0	2.0
666.4	PLEISTOCENE		SANDY CLAY	83.0	12.0
583.4			MICACEOUS SHALE	3.0	95.0
580.4			LIMESTONE	2.0	98.0

MAPID: 00183712000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: ADAMS **TWP/RNG:** 2N 5W **SECTION:** 6 **QUARTERS/FOOTAGES:** 20' N line, 20' W line of NW SE
QUADRANGLE: BOWEN **LONGITUDE:** -91.01723 **GEOLOGIST:** PHILLIPS
CONFIDENTIAL: N **LATITUDE:** 40.187064 **DATE COLLECTED:** 3 / 23 / 1976
SURFACE ELEVATION (FT.): 677.4 **LOGGED (FT.):** 98.0 **LOG TYPE:** Drillers Log
SOURCE: AMAX CM505 **WELL TYPE:** Coal Test
COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
677.4	PLEISTOCENE		SILT	2.0	0.0
675.4	PLEISTOCENE		CLAY	10.0	2.0
665.4	PLEISTOCENE		SANDY CLAY	70.0	12.0
595.4			MICACEOUS SHALE	16.0	82.0

MAPID: 00183713000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: ADAMS **TWP/RNG:** 2N 5W **SECTION:** 6 **QUARTERS/FOOTAGES:** 20' N line, 0' W line of NE SE
QUADRANGLE: BOWEN **LONGITUDE:** -91.012259 **GEOLOGIST:** PHILLIPS
CONFIDENTIAL: N **LATITUDE:** 40.186981 **DATE COLLECTED:** 3 / 23 / 1976
SURFACE ELEVATION (FT.): 676.7 **LOGGED (FT.):** 98.0 **LOG TYPE:** Drillers Log
SOURCE: AMAX CM507 **WELL TYPE:** Coal Test
COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
676.7	PLEISTOCENE		SILT	2.0	0.0
674.7	PLEISTOCENE		CLAY	10.0	2.0
664.7	PLEISTOCENE		SANDY CLAY	80.0	12.0
584.7			LIMESTONE	6.0	92.0 WHITE

MAPID: 00183714000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 6 QUARTERS/FOOTAGES: 20' N line, 20' E line of NE SE

QUADRANGLE: BOWEN LONGITUDE: -91.007291 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.186898 DATE COLLECTED: 3 / 22 / 1976

SURFACE ELEVATION (FT.): 671.8 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log

SOURCE: AMAX CM509 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
671.8	PLEISTOCENE		SILT	1.0	0.0
670.8	PLEISTOCENE		CLAY	5.0	1.0
665.8	PLEISTOCENE		UNCONSOLIDATED	17.0	6.0
648.8	PLEISTOCENE		SAND & GRAVEL	15.0	23.0
633.8	PLEISTOCENE		UNCONSOLIDATED	18.0	38.0
615.8			GRAY SHALE	27.0	56.0
588.8			SHALE WITH LIMESTONE	8.0	83.0
580.8			LIMESTONE	7.0	91.0

MAPID: 00122552000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 8 QUARTERS/FOOTAGES: 10' N line, 50' W line

QUADRANGLE: BOWEN LONGITUDE: -91.007084 GEOLOGIST: KOROSE

CONFIDENTIAL: N LATITUDE: 40.179658 DATE COLLECTED: 7 / 12 / 1967

SURFACE ELEVATION (FT.): 693.0 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: PITTSBURG & MIDWAY 20-C WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
693.0	PLEISTOCENE		CLAY	28.0	0.0
665.0	PLEISTOCENE		MUD	10.0	28.0 BLUE
655.0	PLEISTOCENE		GRAVEL	34.0	38.0
621.0			CALCAREOUS SHALE	3.0	72.0
618.0			LIGHT SHALE	15.0	75.0
603.0			LIMESTONE	0.0	90.0

MAPID: 00122553000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 9 QUARTERS/FOOTAGES: 2550' S line, 1320' E line
 QUADRANGLE: AUGUSTA LONGITUDE: -90.974168 GEOLOGIST: KOROSE
 CONFIDENTIAL: N LATITUDE: 40.171357 DATE COLLECTED: 7 / 12 / 1967
 SURFACE ELEVATION (FT.): 686.0 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log
 SOURCE: PITTSBURG & MIDWAY 19-C WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
686.0	PLEISTOCENE		CLAY	30.0	0.0	
656.0	PLEISTOCENE		MUD	18.0	30.0	BLUE
638.0	PLEISTOCENE		GRAVEL	10.5	48.0	
627.5	CARBONDALE		SHALE	1.5	58.5	
626.0	CARBONDALE		COAL	1.0	60.0	FREE COAL
625.0	CARBONDALE		LIGHT SHALE	2.0	61.0	
623.0	CARBONDALE		SANDSTONE	2.0	63.0	
621.0	CARBONDALE		COAL	0.6	65.0	
620.4	CARBONDALE		UNDERCLAY	1.5	65.6	
618.9	CARBONDALE		SANDSTONE	7.9	67.1	
611.0	CARBONDALE		LIGHT SHALE	5.0	75.0	
606.0	CARBONDALE		SANDSTONE	4.0	80.0	
602.0	CARBONDALE	COLCHESTER	COAL	2.3	84.0	
599.7			UNDERCLAY	3.8	86.3	

MAPID: 00183698000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 9 QUARTERS/FOOTAGES: 40' S line, 0' E line of SW SW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.983735 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.164621 DATE COLLECTED: 1 / 27 / 1976
 SURFACE ELEVATION (FT.): 696.6 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CM219 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.6	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
690.6	PLEISTOCENE		CLAY	11.0	6.0	
679.6	PLEISTOCENE		CLAY	7.0	17.0	SANDY
672.6	PLEISTOCENE		CLAY	3.0	24.0	
669.6	PLEISTOCENE		SAND & GRAVEL	61.0	27.0	

MAPID: 00183699000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 9 QUARTERS/FOOTAGES: 40' S line, 30' E line of SE SW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.979114 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.16453 DATE COLLECTED: 1 / 27 / 1976
 SURFACE ELEVATION (FT.): 696.3 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CM221 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.3	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
690.3	PLEISTOCENE		CLAY	12.0	6.0	
678.3	PLEISTOCENE		CLAY	4.5	18.0	SANDY
673.8	PLEISTOCENE		SAND & GRAVEL	75.5	22.5	

MAPID: 00183700000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 9 QUARTERS/FOOTAGES: 0' N line, 0' E line of SW SW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.983663 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.168174 DATE COLLECTED: 1 / 28 / 1976
 SURFACE ELEVATION (FT.): 696.1 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CM269 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.1	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
688.1	PLEISTOCENE		CLAY	20.0	8.0	
668.1	PLEISTOCENE		SAND & GRAVEL	60.0	28.0	

MAPID: 00183701000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 9 QUARTERS/FOOTAGES: 0' N line, 30' E line of SE SW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.979046 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.168083 DATE COLLECTED: 1 / 27 / 1976
 SURFACE ELEVATION (FT.): 692.2 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CM271 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
692.2	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
684.2	PLEISTOCENE		CLAY	20.0	8.0	
664.2	PLEISTOCENE		SAND & GRAVEL	60.0	28.0	

MAPID: 00183702000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 9 QUARTERS/FOOTAGES: 0' S line, 0' E line of NW NW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.98351 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.175499 DATE COLLECTED: 1 / 28 / 1976
 SURFACE ELEVATION (FT.): 692.0 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CM369 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
692.0	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
686.0	PLEISTOCENE		CLAY	11.5	6.0	
674.5	PLEISTOCENE		SAND & GRAVEL	70.5	17.5	

MAPID: 00122554000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 11 QUARTERS/FOOTAGES: 600' N line, 1675' W line
 QUADRANGLE: AUGUSTA LONGITUDE: -90.944158 GEOLOGIST: KOROSE
 CONFIDENTIAL: N LATITUDE: 40.176691 DATE COLLECTED: 7 / 7 / 1967
 SURFACE ELEVATION (FT.): 687.0 LOGGED (FT.): 91.0 LOG TYPE: Drillers Log
 SOURCE: PITTSBURG & MIDWAY 6-C WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.0	PLEISTOCENE		CLAY	30.0	0.0	
657.0	CARBONDALE		SHALE	43.0	30.0	
614.0	CARBONDALE		LIGHT SHALE	13.0	73.0	
601.0	CARBONDALE	COLCHESTER	COAL	0.2	86.0	SOFT
600.8			UNDERCLAY	3.8	86.2	
597.0			SANDSTONE	1.0	90.0	WHITE

MAPID: 00122555000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 11 QUARTERS/FOOTAGES: 15' S line, 1550' W line
 QUADRANGLE: AUGUSTA LONGITUDE: -90.94484 GEOLOGIST: KOROSE
 CONFIDENTIAL: N LATITUDE: 40.163761 DATE COLLECTED: 7 / 7 / 1967
 SURFACE ELEVATION (FT.): 688.0 LOGGED (FT.): 83.0 LOG TYPE: Drillers Log
 SOURCE: PITTSBURG & MIDWAY 6-P WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
688.0	PLEISTOCENE		CLAY	32.0	0.0	
656.0	PLEISTOCENE		MUD	25.0	32.0	BLUE
631.0	CARBONDALE		SHALE	22.0	57.0	SOFT
609.0	CARBONDALE	COLCHESTER	COAL	2.2	79.0	
606.8			UNDERCLAY	1.8	81.2	

MAPID: 00122556000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 11 QUARTERS/FOOTAGES: 2600' S line, 1150' W line

QUADRANGLE: AUGUSTA LONGITUDE: -90.946151 GEOLOGIST: KOROSE

CONFIDENTIAL: N LATITUDE: 40.170921 DATE COLLECTED: 1 / 19 / 1967

SURFACE ELEVATION (FT.): 681.0 LOGGED (FT.): 103.0 LOG TYPE: Drillers Log

SOURCE: PITTSBURG & MIDWAY 41-C WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
681.0	PLEISTOCENE		CLAY	36.0	0.0	
645.0			GRAY SHALE	52.0	36.0	
593.0			UNDERCLAY	4.0	88.0	COLCHESTER HORIZON?
589.0			CALCAREOUS SHALE	2.0	92.0	
587.0			SHALE	8.0	94.0	
579.0			LIMESTONE	1.0	102.0	

MAPID: 00183601000C VERSION: 1

PROJECT: NCRDS99

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 1' S line, 660' E line of NE NE

QUADRANGLE: AUGUSTA LONGITUDE: -90.914677 GEOLOGIST: J MCBETH

CONFIDENTIAL: N LATITUDE: 40.174259 DATE COLLECTED: 4 / 30 / 1959

SURFACE ELEVATION (FT.): LOGGED (FT.): 0.0 LOG TYPE: Survey Sample Study

SOURCE: TRIPLE S MINE WELL TYPE: Strip Mine

COMMENT: FACE CHANNEL SAMPLE #1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	COLCHESTER	COAL	0.3		ELEVATIONS & DEPTH UNKNOWN
-	CARBONDALE	COLCHESTER	FUSAIN	0.0		ELEVATIONS & DEPTH UNKNOWN
-	CARBONDALE	COLCHESTER	COAL	0.3		
-	CARBONDALE	COLCHESTER	COAL	0.0		WITH FUSAIN 50%
-	CARBONDALE	COLCHESTER	FUSAIN	0.1		
-	CARBONDALE	COLCHESTER	COAL	0.3		
-	CARBONDALE	COLCHESTER	FUSAIN	0.1		
-	CARBONDALE	COLCHESTER	COAL	0.1		
-	CARBONDALE	COLCHESTER	FUSAIN	0.0		
-	CARBONDALE	COLCHESTER	COAL	0.2		
-	CARBONDALE	COLCHESTER	FUSAIN	0.0		
-	CARBONDALE	COLCHESTER	COAL	0.5		

MAPID: 00183602000C VERSION: 1

PROJECT: NCRDS99

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 1' S line, 600' E line of NE

QUADRANGLE: AUGUSTA LONGITUDE: -90.914506 GEOLOGIST: J MCBETH

CONFIDENTIAL: N LATITUDE: 40.170607 DATE COLLECTED: 4 / 30 / 1959

SURFACE ELEVATION (FT.): LOGGED (FT.): 0.0 LOG TYPE: Survey Sample Study

SOURCE: TRIPLE S MINE WELL TYPE: Strip Mine

COMMENT: FACE CHANNEL SAMPLE #2, FROM MINE NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	COLCHESTER	COAL	0.4		ELEVATIONS & DEPTHS UNKNOWN
-	CARBONDALE	COLCHESTER	FUSAIN	0.0		
-	CARBONDALE	COLCHESTER	COAL	0.2		
-	CARBONDALE	COLCHESTER	FUSAIN	0.0		
-	CARBONDALE	COLCHESTER	COAL	0.2		
-	CARBONDALE	COLCHESTER	FUSAIN	0.0		
-	CARBONDALE	COLCHESTER	COAL	0.2		
-	CARBONDALE	COLCHESTER	PYRITE	0.0		
-	CARBONDALE	COLCHESTER	COAL	0.7		
-	CARBONDALE	COLCHESTER	PYRITE	0.0		
-	CARBONDALE	COLCHESTER	COAL	0.1		

MAPID: 00183603000C VERSION: 1

PROJECT: NCRDS99

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 640' N line, 340' W line of SE NW SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.918254 GEOLOGIST: J MCBETH

CONFIDENTIAL: N LATITUDE: 40.167038 DATE COLLECTED: 11 / 14 / 1968

SURFACE ELEVATION (FT.): LOGGED (FT.): 0.0 LOG TYPE: Survey Sample Study

SOURCE: TRIPPLE S MINE #2 WELL TYPE: Strip Mine

COMMENT: FACE CHANNEL SAMPLE #3; FROM MINE NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	COLCHESTER	COAL	0.3		ELEVATIONS & DEPTHS UNKNOWN
-	CARBONDALE	COLCHESTER	FUSAIN	0.1		
-	CARBONDALE	COLCHESTER	COAL	0.6		
-	CARBONDALE	COLCHESTER	PYRITE	0.0		
-	CARBONDALE	COLCHESTER	COAL	0.1		
-	CARBONDALE	COLCHESTER	PYRITE	0.0		
-	CARBONDALE	COLCHESTER	COAL	0.6		
-	CARBONDALE	COLCHESTER	FUSAIN	0.0		
-	CARBONDALE	COLCHESTER	COAL	0.6		

MAPID: 00183604000C VERSION: 1

PROJECT: NCRDS99

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 340' N line, 340' W line of SE NW SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.918246 GEOLOGIST: J MCBETH

CONFIDENTIAL: N LATITUDE: 40.167866 DATE COLLECTED: 11 / 14 / 1968

SURFACE ELEVATION (FT.): LOGGED (FT.): 0.0 LOG TYPE: Survey Sample Study

SOURCE: TRIPPLE S MINE 2 WELL TYPE: Strip Mine

COMMENT: FACE CHANNEL SAMPLE #1

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	COLCHESTER	COAL	0.8		ELEVATIONS & DEPTH UNKNOWN
-	CARBONDALE	COLCHESTER	PYRITE	0.1		
-	CARBONDALE	COLCHESTER	COAL	0.4		
-	CARBONDALE	COLCHESTER	FUSAIN	0.1		WITH PYRITE LENSES AND NODULES
-	CARBONDALE	COLCHESTER	COAL	0.6		NORMALLY BRIGHT-BANDED
-	CARBONDALE	COLCHESTER	COAL	0.3		DULL
-	CARBONDALE	COLCHESTER	COAL	0.2		

MAPID: 00183605000C VERSION: 1

PROJECT: NCRDS99

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 540' N line, 340' W line of SE NW SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.918249 GEOLOGIST: J MCBETH

CONFIDENTIAL: N LATITUDE: 40.167314 DATE COLLECTED: 11 / 14 / 1968

SURFACE ELEVATION (FT.): LOGGED (FT.): 0.0 LOG TYPE: Survey Sample Study

SOURCE: TRIPPLE S MINE 2 WELL TYPE: Strip Mine

COMMENT: FACE CHANNEL SAMPLE #2, FROM MINE NOTES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	CARBONDALE	COLCHESTER	COAL	0.9		ELEVATIONS & DEPTH UNKNOWN
-	CARBONDALE	COLCHESTER	COAL	0.1		ELEVATIONS & DEPTHS UNKNOWN
-	CARBONDALE	COLCHESTER	COAL	0.7		
-	CARBONDALE	COLCHESTER	FUSAIN	0.0		
-	CARBONDALE	COLCHESTER	COAL	0.1		

MAPID: 00183717000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 30' S line, 15' W line of SW SE

QUADRANGLE: AUGUSTA LONGITUDE: -90.921821 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.163427 DATE COLLECTED: 11 / 13 / 1975

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 114.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN221 WELL TYPE: Coal Test

COMMENT: AUGUSTA BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.0	PLEISTOCENE		SILT	1.0	0.0
679.0	PLEISTOCENE		CLAY	9.0	1.0
670.0	PLEISTOCENE		SANDY CLAY	15.0	10.0
655.0	CARBONDALE		GRAY SHALE	1.0	25.0
654.0	CARBONDALE		LIMESTONE	1.0	26.0
653.0	CARBONDALE		GRAY SHALE	45.0	27.0
608.0	CARBONDALE	COLCHESTER	COAL	2.0	72.0
606.0	CARBONDALE		UNDERCLAY	1.0	74.0
605.0	CARBONDALE		GRAY SHALE	13.0	75.0
592.0	CARBONDALE		SANDY SHALE	16.0	88.0
576.0	CARBONDALE		SHALE WITH LIMESTONE	7.5	104.0
568.5	CARBONDALE		LIMESTONE	2.5	111.5

MAPID: 00183718000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 169' N line, 9' W line of NW SW

QUADRANGLE: AUGUSTA LONGITUDE: -90.931228 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.17026 DATE COLLECTED: 5 / 24 / 1977

SURFACE ELEVATION (FT.): 688.2 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN292D WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.2	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0
676.2	PLEISTOCENE		SANDY CLAY	24.5	12.0
651.7			GRAY SHALE	57.5	36.5
594.2			LIMESTONE	2.0	94.0 DARK
592.2			DARK SHALE	1.0	96.0

MAPID: 00183719000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 676' S line, 663' W line of NW SW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.928887 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.168911 DATE COLLECTED: 5 / 25 / 1977
 SURFACE ELEVATION (FT.): 680.5 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN293 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.5	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0
670.5	PLEISTOCENE		SANDY CLAY	5.1	10.0
665.4	PLEISTOCENE		CLAY	2.9	15.1
662.5	CARBONDALE		GRAY SHALE	59.2	18.0
603.3	CARBONDALE	COLCHESTER	COAL	1.8	77.2
601.5	CARBONDALE		UNDERCLAY	2.0	79.0
599.5	CARBONDALE		GRAY SHALE	6.0	81.0

MAPID: 00183720000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 660' N line, 20' E line of NE SE
 QUADRANGLE: AUGUSTA LONGITUDE: -90.912443 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.168769 DATE COLLECTED: 11 / 11 / 1975
 SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 44.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN300 WELL TYPE: Coal Test
 COMMENT: AUGUSTA BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
610.0	PLEISTOCENE		SILT	1.0	0.0
609.0	PLEISTOCENE		CLAY	5.0	1.0
604.0	PLEISTOCENE		SAND & GRAVEL	6.0	6.0
598.0			GRAY SHALE	25.5	12.0
572.5			LIMESTONE	6.5	37.5

MAPID: 00183721000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 7' S line, 652' E line of SW NW

QUADRANGLE: AUGUSTA LONGITUDE: -90.928874 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.170727 DATE COLLECTED: 5 / 23 / 1977

SURFACE ELEVATION (FT.): 688.7 LOGGED (FT.): 157.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN318 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.7	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0
673.7	PLEISTOCENE		CLAY	13.0	15.0
660.7	PLEISTOCENE		SANDY CLAY	6.0	28.0
654.7	PLEISTOCENE		CLAY	5.7	34.0
649.0	CARBONDALE		GRAY SHALE	101.8	39.7
547.2	CARBONDALE	COLCHESTER	COAL	0.5	141.5
546.7	CARBONDALE		SANDY SHALE	12.0	142.0
534.7	CARBONDALE		LIMESTONE	3.0	154.0

MAPID: 00183722000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 495' S line, 2' W line of SE NW

QUADRANGLE: AUGUSTA LONGITUDE: -90.926509 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.172059 DATE COLLECTED: 5 / 24 / 1977

SURFACE ELEVATION (FT.): 688.7 LOGGED (FT.): 117.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN319D WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.7	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0
676.7	PLEISTOCENE		CLAY	17.7	12.0
659.0			DARK SHALE	10.8	29.7
648.2			SANDY SHALE	4.0	40.5
644.2			GRAY SHALE	56.7	44.5
587.5			SANDY SHALE	15.8	101.2

MAPID: 00183723000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 25' S line, 15' E line of SW NW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.926583 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.170761 DATE COLLECTED: 5 / 23 / 1977
 SURFACE ELEVATION (FT.): 683.3 LOGGED (FT.): 94.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN319ZZ WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.3	PLEISTOCENE		UNCONSOLIDATED	14.0	0.0	
669.3	PLEISTOCENE		CLAY	13.0	14.0	BROWN
656.3	PLEISTOCENE		CLAY	5.0	27.0	GREY
651.3	CARBONDALE		GRAY SHALE	6.4	32.0	
644.9	CARBONDALE		LIMESTONE	0.5	38.4	BLACK
644.4	CARBONDALE		GRAY SHALE	42.3	38.9	
602.1	CARBONDALE	COLCHESTER	COAL	1.3	81.2	
600.8	CARBONDALE		UNDERCLAY	2.0	82.5	
598.8	CARBONDALE		GRAY SHALE	3.5	84.5	
595.3	CARBONDALE		LIMESTONE	0.8	88.0	
594.5	CARBONDALE		GRAY SHALE	5.2	88.8	

MAPID: 00183724000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 18' S line, 654' E line of SE NW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.924154 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.170724 DATE COLLECTED: 5 / 23 / 1977
 SURFACE ELEVATION (FT.): 674.2 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN320 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
674.2	PLEISTOCENE		UNCONSOLIDATED	24.0	0.0	
650.2	CARBONDALE		GRAY SHALE	57.7	24.0	
592.5	CARBONDALE	COLCHESTER	COAL	2.0	81.7	
590.5	CARBONDALE		UNDERCLAY	1.8	83.7	
588.7	CARBONDALE		GRAY SHALE	2.5	85.5	

MAPID: 00183725000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 578' S line, 35' E line of SE NW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.921911 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.172255 DATE COLLECTED: 6 / 24 / 1977
 SURFACE ELEVATION (FT.): 680.1 LOGGED (FT.): 107.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN320GI WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.1	PLEISTOCENE		UNCONSOLIDATED	27.0	0.0
653.1			GRAY SHALE	70.0	27.0
583.1			SANDY SHALE	10.0	97.0

MAPID: 00183726000C VERSION: 1

PROJECT: NCRDS92

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 34' S line, 27' E line of SE NW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.921899 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.170753 DATE COLLECTED: 5 / 24 / 1977
 SURFACE ELEVATION (FT.): 674.0 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN320PM WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
674.0	PLEISTOCENE		UNCONSOLIDATED	22.0	0.0
652.0	PLEISTOCENE		SANDY CLAY	6.0	22.0
646.0	CARBONDALE		GRAY SHALE	52.1	28.0
593.9	CARBONDALE	COLCHESTER	COAL	1.8	80.1
592.1	CARBONDALE		UNDERCLAY	3.1	81.9
589.0	CARBONDALE		GRAY SHALE	2.0	85.0

MAPID: 00183727000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 645' S line, 655' E line of SE NW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.924139 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.172454 DATE COLLECTED: 5 / 24 / 1977
 SURFACE ELEVATION (FT.): 669.9 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN345 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
669.9	PLEISTOCENE		UNCONSOLIDATED	13.0	0.0
656.9			BLACK SHALE	10.5	13.0
646.4			GRAY SHALE	73.5	23.5

MAPID: 00183728000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 1143' S line, 648' E line of SE NW
 QUADRANGLE: AUGUSTA LONGITUDE: -90.924102 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.173829 DATE COLLECTED: 5 / 25 / 1977
 SURFACE ELEVATION (FT.): 664.5 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN345D WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.5	PLEISTOCENE		UNCONSOLIDATED	16.0	0.0	
648.5			BLACK SHALE	7.0	16.0	
641.5			SANDY SHALE	8.0	23.0	
633.5			GRAY SHALE	7.0	31.0	
626.5			SANDSTONE	6.0	38.0	BROWN
620.5			GRAY SANDSTONE	5.0	44.0	
615.5			SANDY SHALE	9.0	49.0	
606.5			GRAY SHALE	39.0	58.0	

MAPID: 00183729000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 0' S line, 40' E line of NE NE
 QUADRANGLE: AUGUSTA LONGITUDE: -90.912446 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.174239 DATE COLLECTED: 11 / 11 / 1975
 SURFACE ELEVATION (FT.): 664.0 LOGGED (FT.): 93.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CN375 WELL TYPE: Coal Test
 COMMENT: AUGUSTA BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.0	PLEISTOCENE		SILT	2.0	0.0	
662.0	PLEISTOCENE		CLAY	8.0	2.0	YELLOW
654.0	PLEISTOCENE		SANDY CLAY	16.0	10.0	
638.0	CARBONDALE		GRAY SHALE	40.0	26.0	
598.0	CARBONDALE	COLCHESTER	COAL	1.5	66.0	
596.5	CARBONDALE		UNDERCLAY	1.5	67.5	
595.0	CARBONDALE		SANDY SHALE	23.0	69.0	
572.0	CARBONDALE		LIMESTONE	1.0	92.0	

MAPID: 00183730000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 665' N line, 675' W line of NW NW

QUADRANGLE: AUGUSTA LONGITUDE: -90.928788 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.176199 DATE COLLECTED: 5 / 25 / 1977

SURFACE ELEVATION (FT.): 664.5 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN393 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.5	PLEISTOCENE		UNCONSOLIDATED	14.0	0.0	
650.5	PLEISTOCENE		CLAY	11.0	14.0	BROWN
639.5	PLEISTOCENE		CLAY	9.0	25.0	GREY
630.5			GRAY SHALE	30.0	34.0	
600.5			GRAY SANDSTONE	3.0	64.0	
597.5			SANDY SHALE	15.0	67.0	
582.5			GRAY SANDSTONE	5.0	82.0	
577.5			GRAY SHALE	10.0	87.0	

MAPID: 00183738000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 4' N line, 660' W line of NW NW

QUADRANGLE: AUGUSTA LONGITUDE: -90.928826 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.178023 DATE COLLECTED: 5 / 25 / 1977

SURFACE ELEVATION (FT.): 678.8 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN418 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
678.8	PLEISTOCENE		UNCONSOLIDATED	16.0	0.0	
662.8	PLEISTOCENE		CLAY	16.0	16.0	SANDY
646.8			GRAY SHALE	36.0	32.0	
610.8			GRAY SANDSTONE	1.0	68.0	
609.8			SANDY SHALE	23.0	69.0	
586.8			GRAY SHALE	5.0	92.0	

MAPID: 00183741000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 12 QUARTERS/FOOTAGES: 3' N line, 10' E line of NE NE

QUADRANGLE: AUGUSTA LONGITUDE: -90.912297 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.177881 DATE COLLECTED: 4 / 24 / 1975

SURFACE ELEVATION (FT.): 675.6 LOGGED (FT.): 102.0 LOG TYPE: Drillers Log

SOURCE: AMAX CN425-1 WELL TYPE: Coal Test

COMMENT: AUGUSTA BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.6	PLEISTOCENE		CLAY	13.0	0.0	YELLOW
662.6	PLEISTOCENE		CLAY	5.0	13.0	
657.6	PLEISTOCENE		SANDY CLAY	6.0	18.0	YELLOW
651.6	CARBONDALE		GRAY SHALE	3.0	24.0	
648.6	CARBONDALE		SANDY SHALE	13.0	27.0	
635.6	CARBONDALE		GRAY SHALE	14.3	40.0	
621.3	CARBONDALE		SANDSTONE	1.7	54.3	HARD
619.6	CARBONDALE		SHALE	8.0	56.0	WHITE
611.6	CARBONDALE		SHALY SANDSTONE	2.4	64.0	
609.2	CARBONDALE		UNDERCLAY	0.2	66.4	
609.0	CARBONDALE	COLCHESTER	COAL	0.7	66.6	HARD
608.3	CARBONDALE		UNDERCLAY	0.3	67.3	
608.0	CARBONDALE		SANDSTONE	1.4	67.6	
606.6	CARBONDALE		SANDSTONE	7.0	69.0	COARSE, WHITE, COAL STREAKS
599.6	CARBONDALE		GRAY SHALE	2.0	76.0	
597.6	CARBONDALE		SANDSTONE	2.0	78.0	
595.6	CARBONDALE		SHALY SANDSTONE	4.0	80.0	
591.6	CARBONDALE		LIMESTONE	4.8	84.0	
586.8	TRADEWATER	ROCK ISLAND	COAL	0.2	88.8	
586.6	TRADEWATER		SHALE	0.4	89.0	WHITE
586.2	TRADEWATER		LIMESTONE	7.6	89.4	SHALE STREAKS
578.6	TRADEWATER		GRAY SHALE	4.4	97.0	
574.2	TRADEWATER		CHERT	0.6	101.4	

MAPID: 00100017000C VERSION: 1

PROJECT: NCRDS87

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 14 QUARTERS/FOOTAGES: NE SW NW

QUADRANGLE: AUGUSTA LONGITUDE: -90.946914 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 40.159168 DATE COLLECTED:

SURFACE ELEVATION (FT.): 684.0 LOGGED (FT.): 82.3 LOG TYPE: Drillers Log

SOURCE: WATER WELL WELL TYPE: Water Well

COMMENT: LOCATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.0			UNCONSOLIDATED	66.0	0.0	
618.0	CARBONDALE		SHALE	14.0	66.0	
604.0	CARBONDALE	COLCHESTER	COAL	2.3	80.0	

MAPID: 00102000000C VERSION: 1

PROJECT: NCRDS99

COUNTY: ADAMS

TWP/RNG: 2N 5W

SECTION: 14

QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: AUGUSTA

LONGITUDE: -90.939758

GEOLOGIST: J MCBETH

CONFIDENTIAL: N

LATITUDE: 40.157163

DATE COLLECTED: 0 / 0 / 1926

SURFACE ELEVATION (FT.): 680.0

LOGGED (FT.): 82.3

LOG TYPE: Drillers Log

SOURCE: OW ALEXANDER FARMS

WELL TYPE: Coal Test

COMMENT: USED IN CO-OP III REPORT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.0			UNKNOWN	80.0	0.0	
600.0	CARBONDALE	COLCHESTER	COAL	2.3	80.0	

MAPID: 00116000000C VERSION: 1

PROJECT: NCRDS99

COUNTY: ADAMS

TWP/RNG: 2N 5W

SECTION: 14

QUARTERS/FOOTAGES: SE NW SW

QUADRANGLE: AUGUSTA

LONGITUDE: -90.947012

GEOLOGIST: J MCBETH

CONFIDENTIAL: N

LATITUDE: 40.153649

DATE COLLECTED:

SURFACE ELEVATION (FT.): 683.0

LOGGED (FT.): 82.5

LOG TYPE: Drillers Log

SOURCE: JJ DUTTON FARM

WELL TYPE: Coal Test

COMMENT: USED IN CO-OP III REPORT

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.0	PLEISTOCENE		UNCONSOLIDATED	60.0	0.0	CLAY,SAND,GRAVEL
623.0	CARBONDALE	FRANCIS CREEK	SHALE	20.0	60.0	
603.0	CARBONDALE	COLCHESTER	COAL	2.5	80.0	

MAPID: 00122557000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS

TWP/RNG: 2N 5W

SECTION: 16

QUARTERS/FOOTAGES: 10' N line, 1' W line

QUADRANGLE: AUGUSTA

LONGITUDE: -90.988465

GEOLOGIST: KOROSE

CONFIDENTIAL: N

LATITUDE: 40.164576

DATE COLLECTED: 7 / 12 / 1967

SURFACE ELEVATION (FT.): 695.0

LOGGED (FT.): 107.0

LOG TYPE: Drillers Log

SOURCE: PITTSBURG & MIDWAY 20-P

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.0	PLEISTOCENE		CLAY	42.0	0.0	
653.0	PLEISTOCENE		SANDY CLAY	43.0	42.0	BLUE
610.0			SANDSTONE	9.5	85.0	GREEN
600.5			GRAY SHALE	7.5	94.5	COAL SHOWING AT BASE
593.0			GRAY SHALE	4.5	102.0	
588.5			LIMESTONE	0.5	106.5	

MAPID: 00122558000C **VERSION:** 1 **PROJECT:** NCRDS95
COUNTY: ADAMS **TWP/RNG:** 2N 5W **SECTION:** 16 **QUARTERS/FOOTAGES:** 15' N line, 2750' W line
QUADRANGLE: AUGUSTA **LONGITUDE:** -90.978586 **GEOLOGIST:** KOROSE
CONFIDENTIAL: N **LATITUDE:** 40.164368 **DATE COLLECTED:** 7 / 12 / 1967
SURFACE ELEVATION (FT.): 696.0 **LOGGED (FT.):** 107.0 **LOG TYPE:** Drillers Log
SOURCE: PITTSBURG & MIDWAY 21-P **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.0	PLEISTOCENE		SANDY CLAY	46.0	0.0	
650.0	PLEISTOCENE		SANDY CLAY	61.0	46.0	BLUE

MAPID: 00122559000C **VERSION:** 1 **PROJECT:** NCRDS95
COUNTY: ADAMS **TWP/RNG:** 2N 5W **SECTION:** 23 **QUARTERS/FOOTAGES:** 75' N line, 2500' W line
QUADRANGLE: AUGUSTA **LONGITUDE:** -90.941727 **GEOLOGIST:** KOROSE
CONFIDENTIAL: N **LATITUDE:** 40.148721 **DATE COLLECTED:** 7 / 8 / 1967
SURFACE ELEVATION (FT.): 673.0 **LOGGED (FT.):** 80.0 **LOG TYPE:** Drillers Log
SOURCE: PITTSBURG & MIDWAY 7-P **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
673.0	PLEISTOCENE		CLAY	37.0	0.0	
636.0	PLEISTOCENE		MUD	26.5	37.0	BLUE
609.5	CARBONDALE		SHALE	11.0	63.5	
598.5	CARBONDALE	COLCHESTER	COAL	2.2	74.5	
596.3			UNDERCLAY	3.3	76.7	

MAPID: 00122560000C **VERSION:** 1 **PROJECT:** NCRDS95
COUNTY: ADAMS **TWP/RNG:** 2N 5W **SECTION:** 24 **QUARTERS/FOOTAGES:** 1300' S line, 10' E line
QUADRANGLE: AUGUSTA **LONGITUDE:** -90.912931 **GEOLOGIST:** KOROSE
CONFIDENTIAL: N **LATITUDE:** 40.137427 **DATE COLLECTED:** 7 / 17 / 1967
SURFACE ELEVATION (FT.): 680.0 **LOGGED (FT.):** 84.0 **LOG TYPE:** Drillers Log
SOURCE: PITTSBURG & MIDWAY 36-P **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.0	PLEISTOCENE		CLAY	37.0	0.0	
643.0	CARBONDALE		SHALE	41.5	37.0	SOFT
601.5	CARBONDALE	COLCHESTER	COAL	2.4	78.5	
599.1			UNDERCLAY	3.1	80.9	

MAPID: 00122561000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 25 QUARTERS/FOOTAGES: 20' N line, 200' E line
 QUADRANGLE: AUGUSTA LONGITUDE: -90.913659 GEOLOGIST: KOROSE
 CONFIDENTIAL: N LATITUDE: 40.133797 DATE COLLECTED: 7 / 8 / 1967
 SURFACE ELEVATION (FT.): 649.0 LOGGED (FT.): 53.0 LOG TYPE: Drillers Log
 SOURCE: PITTSBURG & MIDWAY 7-C WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.0	PLEISTOCENE		UNCONSOLIDATED	51.0	0.0	CLAY, MUD, GRAVEL
598.0			SANDSTONE	1.0	51.0	WHITE
597.0			LIMESTONE	1.0	52.0	

MAPID: 00122562000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 25 QUARTERS/FOOTAGES: 10' S line, 50' E line
 QUADRANGLE: CLAYTON LONGITUDE: -90.913383 GEOLOGIST: KOROSE
 CONFIDENTIAL: N LATITUDE: 40.119131 DATE COLLECTED: 7 / 13 / 1967
 SURFACE ELEVATION (FT.): 691.0 LOGGED (FT.): 96.0 LOG TYPE: Drillers Log
 SOURCE: PITTSBURG & MIDWAY 21-C WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
691.0	PLEISTOCENE		CLAY	30.0	0.0	
661.0	PLEISTOCENE		MUD	54.0	30.0	BLUE
607.0	CARBONDALE		SHALE	4.5	84.0	SOFT
602.5	CARBONDALE	COLCHESTER	COAL	2.2	88.5	
600.3			UNDERCLAY	3.3	90.7	
597.0			LIMESTONE	1.0	94.0	

MAPID: 00122563000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 25 QUARTERS/FOOTAGES: 20' N line, 800' E line
 QUADRANGLE: AUGUSTA LONGITUDE: -90.915814 GEOLOGIST: KOROSE
 CONFIDENTIAL: N LATITUDE: 40.133835 DATE COLLECTED: 7 / 17 / 1967
 SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 87.0 LOG TYPE: Drillers Log
 SOURCE: PITTSBURG & MIDWAY 35-P WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0	PLEISTOCENE		CLAY	30.0	0.0	
635.0	PLEISTOCENE		CLAY	53.0	30.0	BLUE
582.0			SANDSTONE	4.0	83.0	WHITE

MAPID: 00100019000C VERSION: 1

PROJECT: NCRDS87

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 35 QUARTERS/FOOTAGES: NW NE

QUADRANGLE: CLAYTON LONGITUDE: -90.939374 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 40.117843 DATE COLLECTED: 9 / 0 / 1914

SURFACE ELEVATION (FT.): 703.0 LOGGED (FT.): 125.0 LOG TYPE: Drillers Log

SOURCE: RUEBEN ALEXANDER (FARM) WELL TYPE: Coal Test

COMMENT: ELEVATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
703.0			UNCONSOLIDATED	73.0	0.0	
630.0	CARBONDALE		UNCLASSIFIED	7.0	73.0	
623.0	CARBONDALE	COLCHESTER	COAL	1.3	80.0	
621.7	SPOON		UNCLASSIFIED	43.7	81.3	

MAPID: 00122564000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 5W SECTION: 35 QUARTERS/FOOTAGES: 1' S line, 1' E line

QUADRANGLE: CLAYTON LONGITUDE: -90.932575 GEOLOGIST: KOROSE

CONFIDENTIAL: N LATITUDE: 40.104821 DATE COLLECTED: 7 / 14 / 1967

SURFACE ELEVATION (FT.): 707.0 LOGGED (FT.): 120.0 LOG TYPE: Drillers Log

SOURCE: PITTSBURG & MIDWAY 26-P WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
707.0	PLEISTOCENE		CLAY	21.0	0.0	
686.0	PLEISTOCENE		GRAVEL	6.0	21.0	
680.0	PLEISTOCENE		CLAY	49.5	27.0	BLUE
630.5	CARBONDALE		LIMESTONE	1.8	76.5	
628.7	CARBONDALE		SHALE	36.8	78.3	
592.0	CARBONDALE	COLCHESTER	COAL	1.7	115.0	
590.3			UNDERCLAY	3.3	116.7	

MAPID: 00183692000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 1 QUARTERS/FOOTAGES: 0' S line, 40' E line of SE NE
 QUADRANGLE: BOWEN LONGITUDE: -91.027528 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.187158 DATE COLLECTED: 11 / 17 / 1975
 SURFACE ELEVATION (FT.): 694.0 LOGGED (FT.): 111.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL525 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.0	PLEISTOCENE		SILT	3.0	0.0	
691.0	PLEISTOCENE		CLAY	10.0	3.0	YELLOW
681.0	PLEISTOCENE		SANDY CLAY	35.0	13.0	
646.0			GRAY SHALE	55.0	48.0	
591.0			LIMESTONE	2.0	103.0	
589.0			SHALE WITH LIMESTONE	3.0	105.0	
586.0			LIMESTONE	3.0	108.0	

MAPID: 00183693000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 1 QUARTERS/FOOTAGES: 0' S line, 20' W line of NW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.036833 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.19086 DATE COLLECTED: 12 / 22 / 1925
 SURFACE ELEVATION (FT.): 690.3 LOGGED (FT.): 118.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL571 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.3	PLEISTOCENE		SILT	1.0	0.0	
689.3	PLEISTOCENE		CLAY	9.0	1.0	
680.3	PLEISTOCENE		SANDY CLAY	67.0	10.0	
613.3			GRAY SHALE	30.0	77.0	
583.3			LIMESTONE	11.0	107.0	

MAPID: 00183694000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 1 QUARTERS/FOOTAGES: 35' N line, 25' W line of NW NE

QUADRANGLE: BOWEN LONGITUDE: -91.036761 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.194429 DATE COLLECTED: 12 / 18 / 1975

SURFACE ELEVATION (FT.): 693.0 LOGGED (FT.): 106.0 LOG TYPE: Drillers Log

SOURCE: AMAX CL621 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
693.0	PLEISTOCENE		SILT	2.0	0.0
691.0	PLEISTOCENE		SANDY CLAY	8.0	2.0
683.0	PLEISTOCENE		UNCONSOLIDATED	79.0	10.0
604.0	CARBONDALE		SANDY DARK SHALE	6.0	89.0
598.0	CARBONDALE	COLCHESTER	COAL	0.5	95.0
597.5	CARBONDALE		UNDERCLAY	0.5	95.5
597.0	CARBONDALE		GRAY SHALE	3.0	96.0
594.0	CARBONDALE		LIMESTONE	7.0	99.0

MAPID: 00183695000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 1 QUARTERS/FOOTAGES: 40' N line, 0' W line of NE NE

QUADRANGLE: BOWEN LONGITUDE: -91.03207 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.194355 DATE COLLECTED: 12 / 18 / 1975

SURFACE ELEVATION (FT.): 689.6 LOGGED (FT.): 118.0 LOG TYPE: Drillers Log

SOURCE: AMAX CL623 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
689.6	PLEISTOCENE		SILT	1.0	0.0
688.6	PLEISTOCENE		CLAY	9.0	1.0
679.6	PLEISTOCENE		SANDY CLAY	53.0	10.0
626.6	CARBONDALE		BLACK SHALE	3.0	63.0
623.6	CARBONDALE		GRAY SHALE	11.0	66.0
612.6	CARBONDALE	COLCHESTER	COAL	1.8	77.0
610.8	CARBONDALE		UNDERCLAY	1.2	78.8
609.6	CARBONDALE		GRAY SHALE	19.0	80.0
590.6	CARBONDALE		LIMESTONE	19.0	99.0

MAPID: 00183696000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 1 QUARTERS/FOOTAGES: 35' N line, 660' W line of NE NE
 QUADRANGLE: BOWEN LONGITUDE: -91.029697 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.194336 DATE COLLECTED: 12 / 22 / 1975
 SURFACE ELEVATION (FT.): 676.7 LOGGED (FT.): 53.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL624 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
676.7	PLEISTOCENE		SILT	1.0	0.0
675.7	PLEISTOCENE		CLAY	9.0	1.0
666.7	PLEISTOCENE		SAND	10.0	10.0
656.7	PLEISTOCENE		SANDY CLAY	10.0	20.0
646.7	CARBONDALE		GRAY SHALE	3.0	30.0
643.7	CARBONDALE		LIMESTONE	4.0	33.0
639.7	CARBONDALE		BLACK SHALE	4.0	37.0
635.7	CARBONDALE		GRAY SHALE	10.5	41.0
625.2	CARBONDALE	COLCHESTER	COAL	0.8	51.5
624.4	CARBONDALE		UNDERCLAY	0.7	52.3

MAPID: 00183697000C VERSION: 1

PROJECT: NCRDS92

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 1 QUARTERS/FOOTAGES: 60' N line, 40' E line of NE NE
 QUADRANGLE: BOWEN LONGITUDE: -91.027432 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.194238 DATE COLLECTED: 12 / 18 / 1975
 SURFACE ELEVATION (FT.): 683.0 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL625 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
683.0	PLEISTOCENE		SILT	1.0	0.0
682.0	PLEISTOCENE		CLAY	9.0	1.0
673.0	PLEISTOCENE		SANDY CLAY	40.0	10.0
633.0	CARBONDALE		LIMESTONE	2.0	50.0
631.0	CARBONDALE		BLACK SHALE	2.0	52.0
629.0	CARBONDALE		LIMESTONE	1.0	54.0
628.0	CARBONDALE		GRAY SHALE	12.0	55.0
616.0	CARBONDALE	COLCHESTER	COAL	1.9	67.0
614.1	CARBONDALE		UNDERCLAY	1.1	68.9
613.0	CARBONDALE		GRAY SHALE	12.5	70.0
600.5	CARBONDALE		LIMESTONE	15.5	82.5

MAPID: 00122565000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS

TWP/RNG: 2N 6W

SECTION: 2

QUARTERS/FOOTAGES: 1' S line, 1' E line

QUADRANGLE: BOWEN

LONGITUDE: -91.046647

GEOLOGIST: KOROSE

CONFIDENTIAL: N

LATITUDE: 40.1798

DATE COLLECTED: 0 / 0 / 1967

SURFACE ELEVATION (FT.): 696.0

LOGGED (FT.): 96.0

LOG TYPE: Drillers Log

SOURCE: PITTSBURG & MIDWAY 2-W

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
696.0	PLEISTOCENE		CLAY	43.0	0.0	
653.0	CARBONDALE		DARK SHALE	9.0	43.0	
644.0	CARBONDALE		SANDSTONE	11.5	52.0	
632.5	CARBONDALE		BLACK SHALE	2.3	63.5	
630.2	CARBONDALE	OAK GROVE	LIMESTONE	2.0	65.8	
628.2	CARBONDALE	MECCA QUARRY	BLACK SHALE	6.0	67.8	
622.2	CARBONDALE	FRANCIS CREEK	DARK SHALE	10.8	73.8	
611.4	CARBONDALE	COLCHESTER	COAL	1.4	84.6	
610.0			SHALE	10.0	86.0	

MAPID: 00100020000C VERSION: 1

PROJECT: NCRDS87

COUNTY: ADAMS

TWP/RNG: 2N 6W

SECTION: 3

QUARTERS/FOOTAGES: SE SE

QUADRANGLE: BOWEN

LONGITUDE: -91.068122

GEOLOGIST: WEIBEL

CONFIDENTIAL: N

LATITUDE: 40.181728

DATE COLLECTED: 0 / 0 / 1905

SURFACE ELEVATION (FT.): 695.7

LOGGED (FT.): 67.0

LOG TYPE: Drillers Log

SOURCE: MCGILL ESTATE-S.A. MCGILL

WELL TYPE: Mine Shaft

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
695.7			UNCONSOLIDATED	48.0	0.0	
647.7	CARBONDALE		UNCLASSIFIED	14.0	48.0	INCLUDES "BLACK SLATE"
633.7	CARBONDALE	COLCHESTER	COAL	3.0	62.0	
630.7	SPOON		UNDERCLAY	2.0	65.0	

MAPID: 00122566000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 3 QUARTERS/FOOTAGES: 1' N line, 1' W line

QUADRANGLE: BOWEN LONGITUDE: -91.084652 GEOLOGIST: KOROSE

CONFIDENTIAL: N LATITUDE: 40.194975 DATE COLLECTED: 9 / 11 / 1967

SURFACE ELEVATION (FT.): 691.0 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log

SOURCE: PITTSBURG & MIDWAY 7-W WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
691.0	PLEISTOCENE		CLAY	50.0	0.0
641.0	CARBONDALE		SHALE	12.5	50.0
628.5	CARBONDALE	COLCHESTER	SHALE/COAL	0.8	62.5
627.7	CARBONDALE	COLCHESTER	SHALE	0.8	63.3
627.0	CARBONDALE	COLCHESTER	COAL	0.4	64.0
626.6			LIGHT SHALE	25.6	64.4

MAPID: 00183637000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 20' S line, 20' W line of SW NE

QUADRANGLE: BOWEN LONGITUDE: -91.094233 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.18762 DATE COLLECTED: 3 / 23 / 1976

SURFACE ELEVATION (FT.): 684.8 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK521 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.8	PLEISTOCENE		SILT	2.0	0.0
682.8	PLEISTOCENE		CLAY	10.0	2.0
672.8	PLEISTOCENE		UNCONSOLIDATED	38.0	12.0
634.8	CARBONDALE		GRAY SHALE	14.0	50.0
620.8	CARBONDALE	COLCHESTER	COAL	1.9	64.0
618.9	CARBONDALE		UNDERCLAY	2.1	65.9

MAPID: 00183638000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 330' S line, 330' W line of SW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.093101 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.188464 DATE COLLECTED: 3 / 31 / 1976
 SURFACE ELEVATION (FT.): 688.0 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK521A WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.0	PLEISTOCENE		SILT	3.0	0.0
685.0	PLEISTOCENE		CLAY	10.0	3.0
675.0	PLEISTOCENE		UNCONSOLIDATED	50.0	13.0
625.0	CARBONDALE		GRAY SHALE	5.0	63.0
620.0	CARBONDALE	COLCHESTER	COAL	2.2	68.0
617.8	CARBONDALE		UNDERCLAY	1.8	70.2
616.0	CARBONDALE		GRAY SHALE	6.0	72.0

MAPID: 00183639000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 20' S line, 330' W line of SW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.093121 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.187608 DATE COLLECTED: 3 / 31 / 1976
 SURFACE ELEVATION (FT.): 688.8 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK521B WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.8	PLEISTOCENE		SILT	2.0	0.0
686.8	PLEISTOCENE		CLAY	8.0	2.0
678.8	PLEISTOCENE		UNCONSOLIDATED	44.0	10.0
634.8	CARBONDALE		GRAY SHALE	18.0	54.0
616.8	CARBONDALE	COLCHESTER	COAL	2.3	72.0
614.5	CARBONDALE		UNDERCLAY	3.7	74.3

MAPID: 00183640000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 330' S line, 20' W line of SW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.094217 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.188476 DATE COLLECTED: 3 / 31 / 1976
 SURFACE ELEVATION (FT.): 686.7 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK521C WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
686.7	PLEISTOCENE		SILT	3.0	0.0
683.7	PLEISTOCENE		CLAY	12.0	3.0
671.7	PLEISTOCENE		UNCONSOLIDATED	33.0	15.0
638.7	CARBONDALE		GRAY SHALE	21.0	48.0
617.7	CARBONDALE	COLCHESTER	COAL	2.0	69.0
615.7	CARBONDALE		UNDERCLAY	2.0	71.0
613.7	CARBONDALE		GRAY SHALE	5.0	73.0

MAPID: 00183641000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 20' S line, 660' W line of SW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.091933 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.187593 DATE COLLECTED: 3 / 24 / 1976
 SURFACE ELEVATION (FT.): 686.9 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK522 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
686.9	PLEISTOCENE		SILT	2.0	0.0
684.9	PLEISTOCENE		CLAY	8.0	2.0
676.9	PLEISTOCENE		UNCONSOLIDATED	28.0	10.0
648.9	PLEISTOCENE		SAND & GRAVEL	55.0	38.0
593.9			MICACEOUS SHALE	4.0	93.0
589.9			LIMESTONE	1.0	97.0

MAPID: 00183642000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NE

QUADRANGLE: BOWEN LONGITUDE: -91.090711 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.188435 DATE COLLECTED: 3 / 30 / 1976

SURFACE ELEVATION (FT.): 684.0 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK522A WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.0	PLEISTOCENE		SILT	2.0	0.0
682.0	PLEISTOCENE		CLAY	8.0	2.0
674.0	PLEISTOCENE		UNCONSOLIDATED	24.0	10.0
650.0	PLEISTOCENE		SAND & GRAVEL	14.0	34.0
636.0	CARBONDALE		BLACK SHALE	2.0	48.0
634.0	CARBONDALE		BLACK SHALE	25.5	50.0
608.5	CARBONDALE	COLCHESTER	COAL	2.4	75.5
606.1	CARBONDALE		UNDERCLAY	2.1	77.9
604.0	CARBONDALE		MICACEOUS SHALE	5.0	80.0

MAPID: 00183643000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 20' S line, 330' E line of SW NE

QUADRANGLE: BOWEN LONGITUDE: -91.090727 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.187582 DATE COLLECTED: 3 / 30 / 1976

SURFACE ELEVATION (FT.): 685.3 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK522B WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.3	PLEISTOCENE		SILT	2.0	0.0
683.3	PLEISTOCENE		CLAY	12.0	2.0
671.3	PLEISTOCENE		SANDY CLAY	42.0	14.0
629.3	CARBONDALE		GRAY SHALE	16.0	56.0
613.3	CARBONDALE	COLCHESTER	COAL	2.2	72.0
611.1	CARBONDALE		UNDERCLAY	1.8	74.2
609.3	CARBONDALE		GRAY SHALE	2.0	76.0

MAPID: 00183644000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 330' S line, 660' W line of SW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.091913 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.188449 DATE COLLECTED: 3 / 30 / 1976
 SURFACE ELEVATION (FT.): 686.9 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK522C WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
686.9	PLEISTOCENE		SILT	2.0	0.0	
684.9	PLEISTOCENE		CLAY	8.0	2.0	
676.9	PLEISTOCENE		SANDY CLAY	83.0	10.0	
593.9			SANDSTONE	3.0	93.0	HARD
590.9			DARK SHALE	2.0	96.0	

MAPID: 00183645000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 20' S line, 20' E line of SW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.089615 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.187569 DATE COLLECTED: 3 / 24 / 1976
 SURFACE ELEVATION (FT.): 687.4 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK523 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
687.4	PLEISTOCENE		SILT	2.0	0.0	
685.4	PLEISTOCENE		CLAY	10.0	2.0	
675.4	PLEISTOCENE		UNCONSOLIDATED	50.0	12.0	
625.4	CARBONDALE		GRAY SHALE	18.0	62.0	
607.4	CARBONDALE	COLCHESTER	COAL	2.4	80.0	
605.0	CARBONDALE		UNDERCLAY	2.6	82.4	
602.4	CARBONDALE		MICACEOUS SHALE	3.0	85.0	

MAPID: 00183646000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 330' S line, 20' E line of SW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.089598 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.188422 DATE COLLECTED: 3 / 30 / 1976
 SURFACE ELEVATION (FT.): 688.4 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK523C WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.4	PLEISTOCENE		SILT	2.0	0.0
686.4	PLEISTOCENE		CLAY	8.0	2.0
678.4	PLEISTOCENE		SANDY CLAY	74.0	10.0
604.4			MICACEOUS SHALE	1.0	84.0

MAPID: 00183647000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 660' N line, 20' W line of SW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.094193 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.189492 DATE COLLECTED: 3 / 25 / 1976
 SURFACE ELEVATION (FT.): 688.2 LOGGED (FT.): 85.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK546 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.2	PLEISTOCENE		SILT	2.0	0.0
686.2	PLEISTOCENE		CLAY	8.0	2.0
678.2	PLEISTOCENE		SANDY CLAY	70.0	10.0
608.2			MICACEOUS SHALE	5.0	80.0

MAPID: 00183648000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 330' N line, 330' W line of SW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.093059 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.190391 DATE COLLECTED: 3 / 31 / 1976
 SURFACE ELEVATION (FT.): 677.2 LOGGED (FT.): 94.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK546A WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
677.2	PLEISTOCENE		SILT	2.0	0.0
675.2	PLEISTOCENE		CLAY	8.0	2.0
667.2	PLEISTOCENE		UNCONSOLIDATED	78.0	10.0
589.2			SANDSTONE	6.0	88.0

MAPID: 00183649000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 660' N line, 330' W line of SW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.093081 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.189479 DATE COLLECTED: 3 / 31 / 1976
 SURFACE ELEVATION (FT.): 682.2 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK546B WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
682.2	PLEISTOCENE		SILT	3.0	0.0
679.2	PLEISTOCENE		CLAY	7.0	3.0
672.2	PLEISTOCENE		SANDY CLAY	63.0	10.0
609.2			GRAY SHALE	15.0	73.0

MAPID: 00183650000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 330' N line, 20' W line of SW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.094175 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.1904 DATE COLLECTED: 3 / 31 / 1976
 SURFACE ELEVATION (FT.): 680.1 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK546C WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.1	PLEISTOCENE		SILT	3.0	0.0
677.1	PLEISTOCENE		CLAY	7.0	3.0
670.1	PLEISTOCENE		UNCONSOLIDATED	82.0	10.0 SAND AND GRAVEL
588.1			GRAY SHALE	6.0	92.0

MAPID: 00183651000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 660' N line, 660' E line of SW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.091879 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.189468 DATE COLLECTED: 3 / 24 / 1976
 SURFACE ELEVATION (FT.): 681.2 LOGGED (FT.): 92.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK547 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.2	PLEISTOCENE		SILT	2.0	0.0
679.2	PLEISTOCENE		CLAY	10.0	2.0
669.2	PLEISTOCENE		UNCONSOLIDATED	76.0	12.0
593.2			MICACEOUS SHALE	3.0	88.0
590.2			LIMESTONE	1.0	91.0

MAPID: 00183652000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW NE

QUADRANGLE: BOWEN LONGITUDE: -91.090676 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.190367 DATE COLLECTED: 3 / 29 / 1976

SURFACE ELEVATION (FT.): 683.6 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK547A WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.6	PLEISTOCENE		SILT	2.0	0.0	
681.6	PLEISTOCENE		CLAY	8.0	2.0	
673.6	PLEISTOCENE		UNCONSOLIDATED	66.0	10.0	
607.6			MICACEOUS SHALE	16.0	76.0	
591.6			SANDSTONE	2.0	92.0	
589.6			DARK SHALE	3.0	94.0	
586.6			SANDSTONE	11.0	97.0	HARED

MAPID: 00183653000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 660' N line, 330' E line of SW NE

QUADRANGLE: BOWEN LONGITUDE: -91.090695 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.189456 DATE COLLECTED: 3 / 29 / 1976

SURFACE ELEVATION (FT.): 683.4 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK547B WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
683.4	PLEISTOCENE		SILT	2.0	0.0	
681.4	PLEISTOCENE		CLAY	8.0	2.0	
673.4	PLEISTOCENE		UNCONSOLIDATED	70.0	10.0	
603.4			MICACEOUS SHALE	8.0	80.0	

MAPID: 00183654000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 330' N line, 660' W line of SW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.091874 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.190379 DATE COLLECTED: 3 / 30 / 1976
 SURFACE ELEVATION (FT.): 680.6 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK547C WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.6	PLEISTOCENE		SILT	3.0	0.0
677.6	PLEISTOCENE		CLAY	7.0	3.0
670.6	PLEISTOCENE		UNCONSOLIDATED	54.0	10.0
616.6	CARBONDALE		GRAY SHALE	6.0	64.0
610.6	CARBONDALE	COLCHESTER	COAL	2.2	70.0
608.4	CARBONDALE		UNDERCLAY	1.8	72.2
606.6	CARBONDALE		GRAY SHALE	4.0	74.0

MAPID: 00183655000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 660' N line, 20' E line of SW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.089579 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.189446 DATE COLLECTED: 3 / 24 / 1976
 SURFACE ELEVATION (FT.): 685.7 LOGGED (FT.): 90.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK548 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.7	PLEISTOCENE		SILT	2.0	0.0
683.7	PLEISTOCENE		CLAY	10.0	2.0
673.7	PLEISTOCENE		UNCONSOLIDATED	76.0	12.0
597.7			SANDY SHALE	2.0	88.0 HARD

MAPID: 00183656000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 330' N line, 20' E line of SW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.08956 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.190355 DATE COLLECTED: 3 / 29 / 1976
 SURFACE ELEVATION (FT.): 686.9 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK548C WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
686.9	PLEISTOCENE		SILT	2.0	0.0
684.9	PLEISTOCENE		CLAY	8.0	2.0
676.9	PLEISTOCENE		UNCONSOLIDATED	68.0	10.0
608.9			MICACEOUS SHALE	10.0	78.0

MAPID: 00183657000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 20' N line, 20' W line of NW NE

QUADRANGLE: BOWEN LONGITUDE: -91.094075 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.195003 DATE COLLECTED: 3 / 25 / 1976

SURFACE ELEVATION (FT.): 670.6 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK571 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
670.6	PLEISTOCENE		SILT	2.0	0.0
668.6	PLEISTOCENE		CLAY	8.0	2.0
660.6	PLEISTOCENE		SANDY CLAY	45.0	10.0
615.6	CARBONDALE		GRAY SHALE	7.0	55.0
608.6	CARBONDALE	COLCHESTER	COAL	2.3	62.0
606.3	CARBONDALE		UNDERCLAY	3.7	64.3

MAPID: 00183658000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 20' N line, 330' W line of SW NE

QUADRANGLE: BOWEN LONGITUDE: -91.093042 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.191246 DATE COLLECTED: 3 / 31 / 1976

SURFACE ELEVATION (FT.): 685.1 LOGGED (FT.): 80.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK571B WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.1	PLEISTOCENE		SILT	2.0	0.0
683.1	PLEISTOCENE		CLAY	8.0	2.0
675.1	PLEISTOCENE		UNCONSOLIDATED	48.0	10.0
627.1	CARBONDALE		GRAY SHALE	19.0	58.0
608.1	CARBONDALE	COLCHESTER	COAL	2.5	77.0
605.6	CARBONDALE		UNDERCLAY	0.5	79.5

MAPID: 00183659000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 20' S line, 660' W line of NW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.091853 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.191345 DATE COLLECTED: 3 / 25 / 1976
 SURFACE ELEVATION (FT.): 676.7 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK572 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
676.7	PLEISTOCENE		SILT	2.0	0.0
674.7	PLEISTOCENE		CLAY	8.0	2.0
666.7	PLEISTOCENE		UNCONSOLIDATED	40.0	10.0
626.7	CARBONDALE		GRAY SHALE	11.0	50.0
615.7	CARBONDALE	COLCHESTER	COAL	2.5	61.0
613.2	CARBONDALE		UNDERCLAY	2.5	63.5
610.7	CARBONDALE		MICACEOUS SHALE	2.0	66.0

MAPID: 00183660000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 20' N line, 330' E line of SW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.090659 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.191223 DATE COLLECTED: 3 / 30 / 1976
 SURFACE ELEVATION (FT.): 681.5 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK572B WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.5	PLEISTOCENE		SILT	2.0	0.0
679.5	PLEISTOCENE		CLAY	8.0	2.0
671.5	PLEISTOCENE		UNCONSOLIDATED	40.0	10.0
631.5	CARBONDALE		GRAY SHALE	11.0	50.0
620.5	CARBONDALE	COLCHESTER	COAL	2.5	61.0
618.0	CARBONDALE		UNDERCLAY	2.5	63.5
615.5	CARBONDALE		MICACEOUS SHALE	2.0	66.0

MAPID: 00183661000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 20' S line, 20' E line of NW NE

QUADRANGLE: BOWEN LONGITUDE: -91.089542 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.191321 DATE COLLECTED: 3 / 24 / 1976

SURFACE ELEVATION (FT.): 686.3 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK573 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
686.3	PLEISTOCENE		SILT	2.0	0.0
684.3	PLEISTOCENE		CLAY	10.0	2.0
674.3	PLEISTOCENE		UNCONSOLIDATED	40.0	12.0
634.3	CARBONDALE		GRAY SHALE	13.0	52.0
621.3	CARBONDALE	COLCHESTER	COAL	2.4	65.0
618.9	CARBONDALE		UNDERCLAY	0.6	67.4

MAPID: 00183662000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 660' N line, 20' W line of NW NE

QUADRANGLE: BOWEN LONGITUDE: -91.094114 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.193239 DATE COLLECTED: 3 / 29 / 1976

SURFACE ELEVATION (FT.): 685.3 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK596 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.3	PLEISTOCENE		SILT	2.0	0.0
683.3	PLEISTOCENE		CLAY	8.0	2.0
675.3	PLEISTOCENE		SANDY CLAY	42.0	10.0
633.3	CARBONDALE		GRAY SHALE	15.5	52.0
617.8	CARBONDALE	COLCHESTER	COAL	2.0	67.5
615.8	CARBONDALE		UNDERCLAY	2.5	69.5
613.3	CARBONDALE		MICACEOUS SHALE	6.0	72.0

MAPID: 00183663000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 660' N line, 660' W line of NW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.091813 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.193217 DATE COLLECTED: 3 / 26 / 1976
 SURFACE ELEVATION (FT.): 685.6 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK597 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.6	PLEISTOCENE		SILT	2.0	0.0
683.6	PLEISTOCENE		CLAY	8.0	2.0
675.6	PLEISTOCENE		UNCONSOLIDATED	40.0	10.0
635.6	CARBONDALE		GRAY SHALE	17.0	50.0
618.6	CARBONDALE	COLCHESTER	COAL	2.5	67.0
616.1	CARBONDALE		UNDERCLAY	2.5	69.5
613.6	CARBONDALE		MICACEOUS SHALE	6.0	72.0

MAPID: 00183664000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 660' N line, 20' E line of NW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.089506 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.193198 DATE COLLECTED: 3 / 25 / 1976
 SURFACE ELEVATION (FT.): 685.3 LOGGED (FT.): 75.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK598 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.3	PLEISTOCENE		SILT	2.0	0.0
683.3	PLEISTOCENE		CLAY	8.0	2.0
675.3	PLEISTOCENE		UNCONSOLIDATED	42.0	10.0
633.3	CARBONDALE		GRAY SHALE	14.0	52.0
619.3	CARBONDALE	COLCHESTER	COAL	2.5	66.0
616.8	CARBONDALE		UNDERCLAY	2.5	68.5
614.3	CARBONDALE		MICACEOUS SHALE	4.0	71.0

MAPID: 00183667000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 30' N line, 20' W line of NW NE

QUADRANGLE: BOWEN LONGITUDE: -91.094078 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.194975 DATE COLLECTED: 3 / 23 / 1976

SURFACE ELEVATION (FT.): 680.6 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK621 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.6	PLEISTOCENE		SILT	2.0	0.0
678.6	PLEISTOCENE		CLAY	10.0	2.0
668.6	PLEISTOCENE		UNCONSOLIDATED	36.0	12.0
632.6	CARBONDALE		GRAY SHALE	10.5	48.0
622.1	CARBONDALE	COLCHESTER	COAL	2.2	58.5
619.9	CARBONDALE		UNDERCLAY	2.3	60.7
617.6	CARBONDALE		MICACEOUS SHALE	5.0	63.0

MAPID: 00183668000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 40' N line, 750' W line of NW NE

QUADRANGLE: BOWEN LONGITUDE: -91.091453 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.194925 DATE COLLECTED: 3 / 31 / 1976

SURFACE ELEVATION (FT.): 680.5 LOGGED (FT.): 61.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK622Y WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.5	PLEISTOCENE		SILT	2.0	0.0
678.5	PLEISTOCENE		CLAY	8.0	2.0
670.5	PLEISTOCENE		UNCONSOLIDATED	33.0	10.0
637.5	CARBONDALE		GRAY SHALE	15.0	43.0
622.5	CARBONDALE	COLCHESTER	COAL	2.5	58.0
620.0	CARBONDALE		UNDERCLAY	0.5	60.5

MAPID: 00183669000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 4 QUARTERS/FOOTAGES: 30' N line, 20' E line of NW NE
 QUADRANGLE: BOWEN LONGITUDE: -91.089474 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.194935 DATE COLLECTED: 3 / 24 / 1976
 SURFACE ELEVATION (FT.): 684.7 LOGGED (FT.): 68.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK623 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.7	PLEISTOCENE		SILT	2.0	0.0
682.7	PLEISTOCENE		CLAY	10.0	2.0
672.7	PLEISTOCENE		UNCONSOLIDATED	34.0	12.0
638.7	CARBONDALE		GRAY SHALE	16.0	46.0
622.7	CARBONDALE	COLCHESTER	COAL	2.2	62.0
620.5	CARBONDALE		UNDERCLAY	2.8	64.2
617.7	CARBONDALE		MICACEOUS SHALE	1.0	67.0

MAPID: 00183634000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 6 QUARTERS/FOOTAGES: 5' S line, 20' W line of SW NW
 QUADRANGLE: LORAIN LONGITUDE: -91.145255 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.188159 DATE COLLECTED: 4 / 6 / 1976
 SURFACE ELEVATION (FT.): 666.8 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK501 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
666.8	PLEISTOCENE		SILT	1.0	0.0
665.8	PLEISTOCENE		CLAY	9.0	1.0
656.8	PLEISTOCENE		SANDY CLAY	78.0	10.0
578.8			MICACEOUS SHALE	5.0	88.0
573.8			SANDSTONE	4.0	93.0
569.8			LIMESTONE	3.0	97.0

MAPID: 00183635000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 6 QUARTERS/FOOTAGES: 15' S line, 505' W line of SE NW
 QUADRANGLE: LORAINÉ LONGITUDE: -91.137829 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.188094 DATE COLLECTED: 4 / 5 / 1976
 SURFACE ELEVATION (FT.): 682.2 LOGGED (FT.): 130.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK503P WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
682.2	PLEISTOCENE		SILT	1.0	0.0	
681.2	PLEISTOCENE		CLAY	9.0	1.0	
672.2	PLEISTOCENE		UNCONSOLIDATED	78.0	10.0	
594.2			GRAY SHALE	30.0	88.0	
564.2			DARK SHALE	9.0	118.0	
555.2			MICACEOUS SHALE	2.0	127.0	
553.2			LIMESTONE	1.0	129.0	WHITE

MAPID: 00183636000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 6 QUARTERS/FOOTAGES: 15' S line, 30' E line of SE NE
 QUADRANGLE: BOWEN LONGITUDE: -91.122713 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.187899 DATE COLLECTED: 4 / 7 / 1976
 SURFACE ELEVATION (FT.): 689.3 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK509 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.3	PLEISTOCENE		SILT	2.0	0.0	
687.3	PLEISTOCENE		CLAY	5.0	2.0	
682.3	PLEISTOCENE		SANDY CLAY	55.0	7.0	
627.3			GRAY SHALE	9.0	62.0	
618.3			LIMESTONE	0.5	71.0	
617.8			GRAY SHALE	6.5	71.5	
611.3			LIMESTONE	1.0	78.0	
610.3			MICACEOUS SHALE	8.0	79.0	
602.3			SHALE WITH LIMESTONE	6.0	87.0	
596.3			SANDY SHALE	14.0	93.0	
582.3			LIMESTONE	1.0	107.0	

MAPID: 00183665000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 6 QUARTERS/FOOTAGES: 30' N line, 20' W line of NW NW

QUADRANGLE: LORAINÉ LONGITUDE: -91.145117 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.195439 DATE COLLECTED: 4 / 2 / 1976

SURFACE ELEVATION (FT.): 656.3 LOGGED (FT.): 144.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK601 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
656.3	PLEISTOCENE		SILT	1.0	0.0	
655.3	PLEISTOCENE		CLAY	9.0	1.0	
646.3	PLEISTOCENE		SANDY CLAY	56.0	10.0	
590.3			GRAY SHALE	20.0	66.0	
570.3			SANDY SHALE	53.0	86.0	
517.3			LIMESTONE	5.0	139.0	LIGHT

MAPID: 00183666000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 6 QUARTERS/FOOTAGES: 30' N line, 495' W line of NE NW

QUADRANGLE: LORAINÉ LONGITUDE: -91.137719 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.195374 DATE COLLECTED: 1 / 5 / 1976

SURFACE ELEVATION (FT.): 652.8 LOGGED (FT.): 133.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK603P WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
652.8	PLEISTOCENE		SILT	1.0	0.0	
651.8	PLEISTOCENE		CLAY	9.0	1.0	
642.8	PLEISTOCENE		UNCONSOLIDATED	78.0	10.0	
564.8			SANDSTONE	22.0	88.0	
542.8			SANDY SHALE	20.0	110.0	
522.8			LIMESTONE	3.0	130.0	WHITE

MAPID: 0018361000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 7 QUARTERS/FOOTAGES: 10' S line, 25' W line of SE SW
 QUADRANGLE: LORAINÉ LONGITUDE: -91.139887 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.166059 DATE COLLECTED: 1 / 30 / 1976
 SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 118.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK203 WELL TYPE: Coal Test
 COMMENT: BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0	PLEISTOCENE		UNCONSOLIDATED	8.0	0.0	
654.0	PLEISTOCENE		CLAY	20.0	8.0	BROWN
634.0	PLEISTOCENE		CLAY	46.0	28.0	
588.0			GRAY SHALE	21.0	74.0	
567.0			SANDY SHALE	8.0	95.0	
559.0			LIMESTONE	15.0	103.0	

MAPID: 00183611000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 7 QUARTERS/FOOTAGES: 25' S line, 650' W line of SE SW
 QUADRANGLE: LORAINÉ LONGITUDE: -91.137642 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.166063 DATE COLLECTED: 3 / 10 / 1976
 SURFACE ELEVATION (FT.): 673.7 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK204 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
673.7	PLEISTOCENE		SILT	3.0	0.0	
670.7	PLEISTOCENE		CLAY	12.0	3.0	
658.7	PLEISTOCENE		UNCONSOLIDATED	70.0	15.0	
588.7			GRAY SHALE	10.0	85.0	
578.7			LIMESTONE	3.0	95.0	

MAPID: 00183612000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 7 QUARTERS/FOOTAGES: 40' S line, 20' W line of SE SW
 QUADRANGLE: LORAINÉ LONGITUDE: -91.139907 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.166142 DATE COLLECTED: 4 / 7 / 1976
 SURFACE ELEVATION (FT.): 654.5 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK205 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
654.5	PLEISTOCENE		SILT	1.0	0.0	
653.5	PLEISTOCENE		CLAY	11.0	1.0	
642.5	PLEISTOCENE		UNCONSOLIDATED	58.0	12.0	
584.5			MICACEOUS SHALE	3.0	70.0	
581.5			SANDY SHALE	22.0	73.0	
559.5			LIMESTONE	2.0	95.0	WHITE

MAPID: 00183613000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 7 QUARTERS/FOOTAGES: 40' S line, 15' E line of SW SE
 QUADRANGLE: LORAINÉ LONGITUDE: -91.128804 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.165956 DATE COLLECTED: 4 / 7 / 1976
 SURFACE ELEVATION (FT.): 677.2 LOGGED (FT.): 100.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK207 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.2	PLEISTOCENE		SILT	1.0	0.0	
676.2	PLEISTOCENE		CLAY	11.0	1.0	
665.2	PLEISTOCENE		SANDY CLAY	71.0	12.0	
594.2			MICACEOUS SHALE	15.0	83.0	
579.2			LIMESTONE	2.0	98.0	LIGHT

MAPID: 00183614000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 7 QUARTERS/FOOTAGES: 40' S line, 370' E line of SE SE

QUADRANGLE: BOWEN LONGITUDE: -91.124467 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.165883 DATE COLLECTED: 3 / 9 / 1976

SURFACE ELEVATION (FT.): 682.5 LOGGED (FT.): 118.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK208B WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
682.5	PLEISTOCENE		SILT	3.0	0.0
679.5	PLEISTOCENE		UNCONSOLIDATED	12.0	3.0
667.5	PLEISTOCENE		UNCONSOLIDATED	73.0	15.0
594.5	PLEISTOCENE		SAND & GRAVEL	16.0	88.0
578.5			GRAY SHALE	10.0	104.0
568.5			LIMESTONE	4.0	114.0

MAPID: 00183615000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 7 QUARTERS/FOOTAGES: 10' N line, 0' E line of SW SE

QUADRANGLE: LORAINÉ LONGITUDE: -91.128678 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.169476 DATE COLLECTED: 3 / 9 / 1976

SURFACE ELEVATION (FT.): 678.0 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK257 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
678.0	PLEISTOCENE		SILT	3.0	0.0
675.0	PLEISTOCENE		CLAY	7.0	3.0
668.0	PLEISTOCENE		UNCONSOLIDATED	46.0	10.0
622.0			GRAY SHALE	21.0	56.0
601.0			BLACK SHALE	3.0	77.0
598.0			GRAY SHALE	16.0	80.0
582.0			LIMESTONE	2.0	96.0

MAPID: 00183616000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 7 QUARTERS/FOOTAGES: 7' N line, 35' E line of SE SE
 QUADRANGLE: BOWEN LONGITUDE: -91.123175 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.169392 DATE COLLECTED: 3 / 9 / 1976
 SURFACE ELEVATION (FT.): 683.0 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK259 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
683.0	PLEISTOCENE		SILT	1.0	0.0
682.0	PLEISTOCENE		CLAY	9.0	1.0
673.0	PLEISTOCENE		UNCONSOLIDATED	75.0	10.0
598.0			GRAY SHALE	7.0	85.0
591.0			LIMESTONE	6.0	92.0

MAPID: 00183618000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 7 QUARTERS/FOOTAGES: 10' N line, 20' W line of NE SE
 QUADRANGLE: LORAINÉ LONGITUDE: -91.128533 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.173133 DATE COLLECTED: 4 / 7 / 1976
 SURFACE ELEVATION (FT.): 673.7 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK307 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
673.7	PLEISTOCENE		SILT	2.0	0.0
671.7	PLEISTOCENE		CLAY	5.0	2.0
666.7	PLEISTOCENE		UNCONSOLIDATED	28.0	7.0
638.7	PLEISTOCENE		SANDY CLAY	26.0	35.0
612.7	CARBONDALE		GRAY SHALE	7.0	61.0
605.7	CARBONDALE		DARK SHALE	3.0	68.0
602.7	CARBONDALE		GRAY SHALE	14.0	71.0
588.7	TRADEWATER	ROCK ISLAND	COAL	0.7	85.0
588.0	TRADEWATER		UNDERCLAY	1.3	85.7
586.7	TRADEWATER		GRAY SHALE	1.0	87.0

MAPID: 00183622000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 7 QUARTERS/FOOTAGES: 700' N line, 30' W line of SE NW

QUADRANGLE: LORAINÉ LONGITUDE: -91.139761 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.175067 DATE COLLECTED: 2 / 2 / 1976

SURFACE ELEVATION (FT.): 659.9 LOGGED (FT.): 109.6 LOG TYPE: Drillers Log

SOURCE: AMAX CK328 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.9	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0	
653.9	PLEISTOCENE		CLAY	46.0	6.0	BROWN
607.9	PLEISTOCENE		CLAY	16.0	52.0	
591.9	PLEISTOCENE		CLAY	14.0	68.0	GRAY
577.9			GRAY SANDSTONE	9.0	82.0	
568.9			GRAY SHALE	2.2	91.0	
566.7			GRAY SANDSTONE	1.8	93.2	
564.9			GRAY SHALE	3.0	95.0	
561.9			LIMESTONE	1.0	98.0	
560.9			GRAY SHALE	10.4	99.0	LIME BUTTONS
550.5			LIMESTONE	0.2	109.4	

MAPID: 00183617000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 8 QUARTERS/FOOTAGES: 0' S line, 20' E line of NE SW

QUADRANGLE: BOWEN LONGITUDE: -91.11374 GEOLOGIST: ELRICK

CONFIDENTIAL: N LATITUDE: 40.169336 DATE COLLECTED: 4 / 6 / 1976

SURFACE ELEVATION (FT.): 686.5 LOGGED (FT.): 109.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK263 WELL TYPE: Coal Test

COMMENT: CAMPPPOINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
686.5	PLEISTOCENE		SILT	2.0	0.0	
684.5	PLEISTOCENE		CLAY	10.0	2.0	
674.5	PLEISTOCENE		UNCONSOLIDATED	72.0	12.0	
602.5			MICACEOUS SHALE	13.0	84.0	
589.5			DARK SHALE	8.0	97.0	
581.5			MICACEOUS SHALE	2.0	105.0	
579.5			LIMESTONE	2.0	107.0	WHITE

MAPID: 00183619000C VERSION: 1

PROJECT: NCRDS0

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 8 QUARTERS/FOOTAGES: 0' S line, 20' E line of SE NW

QUADRANGLE: BOWEN LONGITUDE: -91.113655 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.172991 DATE COLLECTED: 4 / 6 / 1976

SURFACE ELEVATION (FT.): 689.4 LOGGED (FT.): 125.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK313 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43]

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.4	PLEISTOCENE		SILT	2.0	0.0	
687.4	PLEISTOCENE		CLAY	10.0	2.0	
677.4	PLEISTOCENE		UNCONSOLIDATED	54.0	12.0	
623.4			GRAY SHALE	22.0	66.0	
601.4			MICACEOUS SHALE	12.0	88.0	
589.4			DARK SHALE	18.0	100.0	
571.4			MICACEOUS SHALE	6.0	118.0	
565.4			LIMESTONE	1.0	124.0	WHITE

MAPID: 00183625000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 8 QUARTERS/FOOTAGES: 20' S line, 35' W line of NW NW

QUADRANGLE: BOWEN LONGITUDE: -91.122746 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.176786 DATE COLLECTED: 3 / 9 / 1976

SURFACE ELEVATION (FT.): 677.4 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK359 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
677.4	PLEISTOCENE		SILT	1.0	0.0	
676.4	PLEISTOCENE		CLAY	9.0	1.0	
667.4	PLEISTOCENE		UNCONSOLIDATED	52.0	10.0	
615.4			GRAY SHALE	14.0	62.0	
601.4			LIMESTONE	2.5	76.0	
598.9			SHALE WITH LIMESTONE	6.5	78.5	
592.4			LIMESTONE	3.0	85.0	

MAPID: 00183630000C VERSION: 1

PROJECT: NCRDS012

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 8 QUARTERS/FOOTAGES: 45' N line, 35' W line of NW NW

QUADRANGLE: BOWEN LONGITUDE: -91.122661 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.180268 DATE COLLECTED: 3 / 9 / 1976

SURFACE ELEVATION (FT.): 679.7 LOGGED (FT.): 118.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK409 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
679.7	PLEISTOCENE		SILT	1.0	0.0
678.7	PLEISTOCENE		CLAY	9.0	1.0
669.7	PLEISTOCENE		UNCONSOLIDATED	38.0	10.0
631.7	PLEISTOCENE		SAND	18.0	48.0
613.7			GRAY SHALE	42.0	66.0
571.7			LIMESTONE	10.0	108.0

MAPID: 00183631000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 8 QUARTERS/FOOTAGES: 40' N line, 20' E line of NW NW

QUADRANGLE: BOWEN LONGITUDE: -91.118173 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.180236 DATE COLLECTED: 3 / 10 / 1976

SURFACE ELEVATION (FT.): 668.9 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK411 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
668.9	PLEISTOCENE		SILT	1.0	0.0
667.9	PLEISTOCENE		CLAY	9.0	1.0
658.9	PLEISTOCENE		SANDY CLAY	18.0	10.0
640.9	PLEISTOCENE		SAND & GRAVEL	24.0	28.0
616.9			GRAY SHALE	23.0	52.0
593.9			MICACEOUS SHALE	5.0	75.0
588.9			DARK SHALE	5.0	80.0
583.9			SHALE WITH LIMESTONE	13.0	85.0
570.9			LIMESTONE	10.0	98.0

MAPID: 00122567000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 9 QUARTERS/FOOTAGES: 1' N line, 75' E line
 QUADRANGLE: BOWEN LONGITUDE: -91.08517 GEOLOGIST: KOROSE
 CONFIDENTIAL: N LATITUDE: 40.179939 DATE COLLECTED: 9 / 8 / 1967
 SURFACE ELEVATION (FT.): 694.0 LOGGED (FT.): 84.0 LOG TYPE: Drillers Log
 SOURCE: PITTSBURG & MIDWAY 4-W WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.0	PLEISTOCENE		CLAY	42.0	0.0	
652.0	CARBONDALE		SHALE	8.3	42.0	
643.7	CARBONDALE		LIMESTONE	0.7	50.3	
643.0	CARBONDALE		SHALE	4.5	51.0	
638.5	CARBONDALE		SANDSTONE	0.5	55.5	BROWN
638.0	CARBONDALE		SANDSTONE	5.0	56.0	SOFT
633.0	CARBONDALE		SHALE	18.7	61.0	
614.3	CARBONDALE	COLCHESTER	COAL	0.8	79.7	
613.5			SHALE	3.5	80.5	

MAPID: 00122568000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 9 QUARTERS/FOOTAGES: 1' N line, 1' W line
 QUADRANGLE: BOWEN LONGITUDE: -91.104035 GEOLOGIST: KOROSE
 CONFIDENTIAL: N LATITUDE: 40.180202 DATE COLLECTED: 9 / 9 / 1967
 SURFACE ELEVATION (FT.): 693.0 LOGGED (FT.): 96.0 LOG TYPE: Drillers Log
 SOURCE: PITTSBURG & MIDWAY 5-W WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.0	PLEISTOCENE		CLAY	52.0	0.0	
641.0			DARK SHALE	26.0	52.0	
615.0			LIGHT SHALE	18.0	78.0	

MAPID: 0018362000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 9 QUARTERS/FOOTAGES: 20' S line, 660' W line of SE NW
 QUADRANGLE: BOWEN LONGITUDE: -91.097051 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.172863 DATE COLLECTED: 3 / 30 / 1976
 SURFACE ELEVATION (FT.): 678.3 LOGGED (FT.): 77.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK320 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
678.3	PLEISTOCENE		SILT	3.0	0.0
675.3	PLEISTOCENE		CLAY	10.0	3.0
665.3	PLEISTOCENE		UNCONSOLIDATED	20.0	13.0
645.3	PLEISTOCENE		SAND	24.0	33.0
621.3	CARBONDALE		GRAY SHALE	8.0	57.0
613.3	CARBONDALE	COLCHESTER	COAL	2.2	65.0
611.1	CARBONDALE		UNDERCLAY	1.8	67.2
609.3	CARBONDALE		GRAY SHALE	8.0	69.0

MAPID: 00183621000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 9 QUARTERS/FOOTAGES: 30' S line, 15' E line of SE NW
 QUADRANGLE: BOWEN LONGITUDE: -91.094698 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.172859 DATE COLLECTED: 3 / 25 / 1976
 SURFACE ELEVATION (FT.): 681.6 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK321 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
681.6	PLEISTOCENE		SILT	3.0	0.0
678.6	PLEISTOCENE		CLAY	10.0	3.0
668.6	PLEISTOCENE		UNCONSOLIDATED	40.0	13.0
628.6	CARBONDALE		GRAY SHALE	11.0	53.0
617.6	CARBONDALE		LIMESTONE	5.0	64.0
612.6	CARBONDALE		BLACK SHALE	5.0	69.0
607.6	CARBONDALE	COLCHESTER	COAL	2.2	74.0
605.4	CARBONDALE		UNDERCLAY	1.8	76.2
603.6	CARBONDALE		GRAY SHALE	3.0	78.0

MAPID: 00183623000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 9 QUARTERS/FOOTAGES: 660' S line, 660' W line of SE NW

QUADRANGLE: BOWEN LONGITUDE: -91.097009 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.17463 DATE COLLECTED: 3 / 25 / 1976

SURFACE ELEVATION (FT.): 680.2 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK345 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.2	PLEISTOCENE		SILT	3.0	0.0
677.2	PLEISTOCENE		CLAY	7.0	3.0
670.2	PLEISTOCENE		UNCONSOLIDATED	38.0	10.0
632.2	CARBONDALE		GRAY SHALE	8.0	48.0
624.2	CARBONDALE		LIMESTONE	3.0	56.0
621.2	CARBONDALE		BLACK SHALE	2.0	59.0
619.2	CARBONDALE		GRAY SHALE	14.0	61.0
605.2	CARBONDALE	COLCHESTER	COAL	2.2	75.0
603.0	CARBONDALE		UNDERCLAY	1.8	77.2
601.2	CARBONDALE		GRAY SHALE	9.0	79.0

MAPID: 00183624000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 9 QUARTERS/FOOTAGES: 660' S line, 15' E line of SE NW

QUADRANGLE: BOWEN LONGITUDE: -91.094655 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.174596 DATE COLLECTED: 3 / 29 / 1976

SURFACE ELEVATION (FT.): 680.8 LOGGED (FT.): 77.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK346 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.8	PLEISTOCENE		SILT	3.0	0.0
677.8	PLEISTOCENE		CLAY	10.0	3.0
667.8	PLEISTOCENE		UNCONSOLIDATED	40.0	13.0
627.8	CARBONDALE		GRAY SHALE	5.0	53.0
622.8	CARBONDALE		LIMESTONE	5.0	58.0
617.8	CARBONDALE		BLACK SHALE	5.0	63.0
612.8	CARBONDALE	COLCHESTER	COAL	2.4	68.0
610.4	CARBONDALE		UNDERCLAY	1.6	70.4
608.8	CARBONDALE		GRAY SHALE	5.0	72.0

MAPID: 00183626000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 9 QUARTERS/FOOTAGES: 0' S line, 660' W line of NE NW

QUADRANGLE: BOWEN LONGITUDE: -91.096965 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.176458 DATE COLLECTED: 3 / 25 / 1976

SURFACE ELEVATION (FT.): 685.1 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK370 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.1	PLEISTOCENE		SILT	3.0	0.0
682.1	PLEISTOCENE		CLAY	12.0	3.0
670.1	PLEISTOCENE		UNCONSOLIDATED	37.0	15.0
633.1	CARBONDALE		LIMESTONE	2.0	52.0
631.1	CARBONDALE		BLACK SHALE	2.0	54.0
629.1	CARBONDALE		GRAY SHALE	20.0	56.0
609.1	CARBONDALE	COLCHESTER	COAL	2.4	76.0
606.7	CARBONDALE		UNDERCLAY	1.6	78.4
605.1	CARBONDALE		GRAY SHALE	8.0	80.0

MAPID: 00183627000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 9 QUARTERS/FOOTAGES: 0' N line, 15' E line of NE NW

QUADRANGLE: BOWEN LONGITUDE: -91.094521 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.180073 DATE COLLECTED: 3 / 24 / 1976

SURFACE ELEVATION (FT.): 685.0 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK371 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.0	PLEISTOCENE		CLAY	10.0	0.0
675.0	PLEISTOCENE		UNCONSOLIDATED	20.0	10.0
655.0	PLEISTOCENE		SAND	34.0	30.0
621.0	CARBONDALE		LIMESTONE	1.0	64.0
620.0	CARBONDALE		BLACK SHALE	3.0	65.0
617.0	CARBONDALE		GRAY SHALE	13.0	68.0
604.0	CARBONDALE	COLCHESTER	COAL	2.2	81.0
601.8	CARBONDALE		UNDERCLAY	1.8	83.2
600.0	CARBONDALE		CLAYSTONE	3.0	85.0 GRAY, SOFT

MAPID: 00183628000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 9 QUARTERS/FOOTAGES: 660' N line, 660' W line of NE NW

QUADRANGLE: BOWEN LONGITUDE: -91.096924 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.178286 DATE COLLECTED: 3 / 25 / 1976

SURFACE ELEVATION (FT.): 691.6 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK395 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
691.6	PLEISTOCENE		SILT	3.0	0.0	
688.6	PLEISTOCENE		CLAY	10.0	3.0	
678.6	PLEISTOCENE		UNCONSOLIDATED	42.0	13.0	
636.6	CARBONDALE		LIMESTONE	2.0	55.0	
634.6	CARBONDALE		BLACK SHALE	3.0	57.0	
631.6	CARBONDALE		GRAY SHALE	26.0	60.0	
605.6	CARBONDALE	COLCHESTER	COAL	2.5	86.0	
603.1	CARBONDALE		UNDERCLAY	1.5	88.5	
601.6	CARBONDALE		CLAYSTONE	8.0	90.0	GRAY, SOFT

MAPID: 00183629000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 9 QUARTERS/FOOTAGES: 660' N line, 15' E line of NE NW

QUADRANGLE: BOWEN LONGITUDE: -91.094566 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.178254 DATE COLLECTED: 3 / 29 / 1976

SURFACE ELEVATION (FT.): 691.3 LOGGED (FT.): 97.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK396 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
691.3	PLEISTOCENE		SILT	3.0	0.0	
688.3	PLEISTOCENE		CLAY	10.0	3.0	
678.3	PLEISTOCENE		UNCONSOLIDATED	50.0	13.0	
628.3	CARBONDALE		LIMESTONE	10.0	63.0	
613.8	CARBONDALE		BLACK SHALE	4.5	77.5	
609.3	CARBONDALE		GRAY SHALE	2.0	82.0	
607.3	CARBONDALE	COLCHESTER	COAL	2.2	84.0	
605.1	CARBONDALE		UNDERCLAY	1.8	86.2	
603.3	CARBONDALE		GRAY SHALE	9.0	88.0	

MAPID: 00183632000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 9 QUARTERS/FOOTAGES: 30' N line, 660' W line of NE NW

QUADRANGLE: BOWEN LONGITUDE: -91.096881 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.180022 DATE COLLECTED: 3 / 26 / 1976

SURFACE ELEVATION (FT.): 691.2 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK420 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
691.2	PLEISTOCENE		SILT	3.0	0.0
688.2	PLEISTOCENE		CLAY	10.0	3.0
678.2	PLEISTOCENE		UNCONSOLIDATED	37.0	13.0
641.2	CARBONDALE		BLACK SHALE	3.0	50.0
638.2	CARBONDALE		GRAY SHALE	35.0	53.0
603.2	CARBONDALE	COLCHESTER	COAL	2.4	88.0
600.8	CARBONDALE		UNDERCLAY	1.6	90.4
599.2	CARBONDALE		GRAY SHALE	6.0	92.0

MAPID: 00183633000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 9 QUARTERS/FOOTAGES: 35' N line, 15' E line of NE NW

QUADRANGLE: BOWEN LONGITUDE: -91.094526 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.179977 DATE COLLECTED: 3 / 24 / 1976

SURFACE ELEVATION (FT.): 689.9 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: AMAX CK421 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
689.9	PLEISTOCENE		SILT	3.0	0.0
686.9	PLEISTOCENE		CLAY	10.0	3.0
676.9	PLEISTOCENE		UNCONSOLIDATED	45.0	13.0
631.9	CARBONDALE		GRAY SHALE	10.0	58.0
621.9	CARBONDALE		LIMESTONE	6.0	68.0
615.9	CARBONDALE		BLACK SHALE	6.0	74.0
609.9	CARBONDALE		DARK SHALE	1.0	80.0
608.9	CARBONDALE	COLCHESTER	COAL	2.5	81.0
606.4	CARBONDALE		UNDERCLAY	1.5	83.5
604.9	CARBONDALE		GRAY SHALE	3.0	85.0

MAPID: 00122569000C **VERSION:** 1 **PROJECT:** NCRDS95
COUNTY: ADAMS **TWP/RNG:** 2N 6W **SECTION:** 10 **QUARTERS/FOOTAGES:** 1' N line, 1' E line
QUADRANGLE: BOWEN **LONGITUDE:** -91.065765 **GEOLOGIST:** KOROSE
CONFIDENTIAL: N **LATITUDE:** 40.179844 **DATE COLLECTED:** 9 / 8 / 1967
SURFACE ELEVATION (FT.): 697.0 **LOGGED (FT.):** 80.0 **LOG TYPE:** Drillers Log
SOURCE: PITTSBURG & MIDWAY 3-W **WELL TYPE:** Coal Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
697.0	PLEISTOCENE		CLAY	51.0	0.0	
646.0	CARBONDALE		DARK SHALE	4.0	51.0	
642.0	CARBONDALE		SANDSTONE	2.5	55.0	
639.5	CARBONDALE	OAK GROVE	LIMESTONE	3.7	57.5	HARD
635.8	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.8	61.2	
633.0	CARBONDALE	FRANCIS CREEK	DARK SHALE	11.3	64.0	
621.7	CARBONDALE	COLCHESTER	COAL	2.1	75.3	
619.6			SHALE	2.6	77.4	

MAPID: 00183670000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: ADAMS **TWP/RNG:** 2N 6W **SECTION:** 10 **QUARTERS/FOOTAGES:** 40' S line, 30' W line of SW NW
QUADRANGLE: BOWEN **LONGITUDE:** -91.084978 **GEOLOGIST:** PHILLIPS
CONFIDENTIAL: N **LATITUDE:** 40.172752 **DATE COLLECTED:** 3 / 8 / 1976
SURFACE ELEVATION (FT.): 692.5 **LOGGED (FT.):** 108.0 **LOG TYPE:** Drillers Log
SOURCE: AMAX CL301 **WELL TYPE:** Coal Test
COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
692.5	PLEISTOCENE		CLAY	12.0	0.0	
680.5	PLEISTOCENE		UNCONSOLIDATED	22.0	12.0	
658.5	PLEISTOCENE		SAND & GRAVEL	64.0	34.0	
594.5			SHALE WITH LIMESTONE	10.0	98.0	

MAPID: 00183671000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: ADAMS **TWP/RNG:** 2N 6W **SECTION:** 10 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SW NW
QUADRANGLE: BOWEN **LONGITUDE:** -91.083877 **GEOLOGIST:** PHILLIPS
CONFIDENTIAL: N **LATITUDE:** 40.173545 **DATE COLLECTED:** 4 / 7 / 1976
SURFACE ELEVATION (FT.): 672.6 **LOGGED (FT.):** 88.0 **LOG TYPE:** Drillers Log
SOURCE: AMAX CL301A **WELL TYPE:** Coal Test
COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.6	PLEISTOCENE		CLAY	10.0	0.0	
662.6	PLEISTOCENE		SAND & GRAVEL	68.0	10.0	
594.6			GRAY SHALE	10.0	78.0	

MAPID: 00183672000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 330' S line, 20' W line of SW NW
 QUADRANGLE: BOWEN LONGITUDE: -91.084992 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.173552 DATE COLLECTED: 4 / 6 / 1976
 SURFACE ELEVATION (FT.): 691.6 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL301C WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
691.6	PLEISTOCENE		SILT	3.0	0.0	
688.6	PLEISTOCENE		CLAY	8.0	3.0	
680.6	PLEISTOCENE		UNCONSOLIDATED	70.0	11.0	
610.6	CARBONDALE	COLCHESTER	COAL	2.0	81.0	TOP ERODED
608.6	CARBONDALE		UNDERCLAY	2.0	83.0	
606.6	CARBONDALE		GRAY SHALE	3.0	85.0	

MAPID: 00183673000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 20' S line, 660' W line of SW NW
 QUADRANGLE: BOWEN LONGITUDE: -91.082713 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.172686 DATE COLLECTED: 4 / 6 / 1976
 SURFACE ELEVATION (FT.): 689.3 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL302 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
689.3	PLEISTOCENE		CLAY	12.0	0.0	
677.3	PLEISTOCENE		UNCONSOLIDATED	48.0	12.0	
629.3	PLEISTOCENE		SAND & GRAVEL	32.0	60.0	
597.3			GRAY SHALE	6.0	92.0	

MAPID: 00183674000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 320' S line, 660' W line of SW NW
 QUADRANGLE: BOWEN LONGITUDE: -91.082692 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.173511 DATE COLLECTED: 4 / 7 / 1976
 SURFACE ELEVATION (FT.): 684.4 LOGGED (FT.): 94.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL302C WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
684.4	PLEISTOCENE		SILT	2.0	0.0	
682.4	PLEISTOCENE		CLAY	10.0	2.0	
672.4	PLEISTOCENE		SANDY CLAY	69.0	12.0	
603.4			MICACEOUS SHALE	8.0	81.0	
595.4			SHALE WITH LIMESTONE	5.0	89.0	

MAPID: 00183675000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 20' S line, 20' E line of SW NW
 QUADRANGLE: BOWEN LONGITUDE: -91.08036 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.17267 DATE COLLECTED: 4 / 6 / 1976
 SURFACE ELEVATION (FT.): 688.7 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL303 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.7	PLEISTOCENE		CLAY	12.0	0.0
676.7	PLEISTOCENE		UNCONSOLIDATED	28.0	12.0
648.7	PLEISTOCENE		SAND & GRAVEL	51.0	40.0
597.7			GRAY SHALE	7.0	91.0

MAPID: 00183676000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 660' N line, 20' W line of SW NW
 QUADRANGLE: BOWEN LONGITUDE: -91.08497 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.174472 DATE COLLECTED: 4 / 6 / 1976
 SURFACE ELEVATION (FT.): 686.1 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL326 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
686.1	PLEISTOCENE		SILT	3.0	0.0
683.1	PLEISTOCENE		CLAY	7.0	3.0
676.1	PLEISTOCENE		UNCONSOLIDATED	51.0	10.0
625.1	CARBONDALE		GRAY SHALE	15.0	61.0
610.1	CARBONDALE	COLCHESTER	COAL	2.5	76.0
607.6	CARBONDALE		UNDERCLAY	1.5	78.5
606.1	CARBONDALE		GRAY SHALE	8.0	80.0

MAPID: 00183677000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 660' N line, 660' W line of SW NW
 QUADRANGLE: BOWEN LONGITUDE: -91.082667 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.174458 DATE COLLECTED: 4 / 5 / 1976
 SURFACE ELEVATION (FT.): 684.2 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL327 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
684.2	PLEISTOCENE		SILT	3.0	0.0
681.2	PLEISTOCENE		CLAY	10.0	3.0
671.2	PLEISTOCENE		SANDY CLAY	38.0	13.0
633.2	CARBONDALE		GRAY SHALE	24.0	51.0
609.2	CARBONDALE	COLCHESTER	COAL	2.5	75.0
606.7	CARBONDALE		UNDERCLAY	1.5	77.5
605.2	CARBONDALE		GRAY SHALE	9.0	79.0

MAPID: 00183678000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 330' N line, 330' E line of SW NW
 QUADRANGLE: BOWEN LONGITUDE: -91.08141 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.175361 DATE COLLECTED: 4 / 7 / 1976
 SURFACE ELEVATION (FT.): 693.9 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL327A WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
693.9	PLEISTOCENE		SILT	3.0	0.0
690.9	PLEISTOCENE		CLAY	10.0	3.0
680.9	PLEISTOCENE		UNCONSOLIDATED	47.0	13.0
633.9	CARBONDALE		GRAY SHALE	17.0	60.0
616.9	CARBONDALE	COLCHESTER	COAL	2.5	77.0
614.4	CARBONDALE		UNDERCLAY	1.5	79.5
612.9	CARBONDALE		GRAY SHALE	7.0	81.0

MAPID: 00183679000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 660' N line, 330' E line of SW NW
 QUADRANGLE: BOWEN LONGITUDE: -91.081433 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.174453 DATE COLLECTED: 4 / 7 / 1976
 SURFACE ELEVATION (FT.): 696.4 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL327B WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
696.4	PLEISTOCENE		SILT	3.0	0.0
693.4	PLEISTOCENE		CLAY	7.0	3.0
686.4	PLEISTOCENE		UNCONSOLIDATED	48.0	10.0
638.4	PLEISTOCENE		SAND & GRAVEL	30.0	58.0
608.4			GRAY SHALE	10.0	88.0

MAPID: 00183680000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 330' N line, 660' W line of SW NW
 QUADRANGLE: BOWEN LONGITUDE: -91.082644 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.175369 DATE COLLECTED: 4 / 8 / 1976
 SURFACE ELEVATION (FT.): 686.3 LOGGED (FT.): 78.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL327C WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
686.3	PLEISTOCENE		SILT	3.0	0.0
683.3	PLEISTOCENE		CLAY	7.0	3.0
676.3	PLEISTOCENE		UNCONSOLIDATED	40.0	10.0
636.3	CARBONDALE		BLACK SHALE	2.0	50.0
634.3	CARBONDALE		GRAY SHALE	22.0	52.0
612.3	CARBONDALE	COLCHESTER	COAL	2.0	74.0
610.3	CARBONDALE		UNDERCLAY	2.0	76.0

MAPID: 00183681000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 660' N line, 20' E line of SW NW
 QUADRANGLE: BOWEN LONGITUDE: -91.080317 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.174445 DATE COLLECTED: 4 / 5 / 1976
 SURFACE ELEVATION (FT.): 688.3 LOGGED (FT.): 98.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL328 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.3	PLEISTOCENE		SILT	3.0	0.0
685.3	PLEISTOCENE		CLAY	7.0	3.0
678.3	PLEISTOCENE		UNCONSOLIDATED	40.0	10.0
638.3	PLEISTOCENE		SAND & GRAVEL	31.0	50.0
607.3			GRAY SHALE	10.0	81.0
597.3			SHALE WITH LIMESTONE	7.0	91.0

MAPID: 00183682000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 330' N line, 20' E line of SW NW
 QUADRANGLE: BOWEN LONGITUDE: -91.080294 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.175357 DATE COLLECTED: 4 / 7 / 1976
 SURFACE ELEVATION (FT.): 696.1 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL328C WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
696.1	PLEISTOCENE		SILT	3.0	0.0
693.1	PLEISTOCENE		CLAY	12.0	3.0
681.1	PLEISTOCENE		UNCONSOLIDATED	43.0	15.0
638.1	PLEISTOCENE		SAND & GRAVEL	10.0	58.0
628.1	CARBONDALE		GRAY SHALE	14.0	68.0
614.1	CARBONDALE	COLCHESTER	COAL	2.7	82.0
611.4	CARBONDALE		UNDERCLAY	1.3	84.7
610.1	CARBONDALE		GRAY SHALE	2.0	86.0

MAPID: 00183683000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 0' S line, 35' W line of NW NW
 QUADRANGLE: BOWEN LONGITUDE: -91.084867 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.176292 DATE COLLECTED: 4 / 7 / 1976
 SURFACE ELEVATION (FT.): 692.8 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL351 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
692.8	PLEISTOCENE		SILT	1.0	0.0
691.8	PLEISTOCENE		CLAY	11.0	1.0
680.8	PLEISTOCENE		UNCONSOLIDATED	56.0	12.0
624.8	CARBONDALE		GRAY SHALE	15.0	68.0
609.8	CARBONDALE	COLCHESTER	COAL	2.5	83.0
607.3	CARBONDALE		UNDERCLAY	2.5	85.5

MAPID: 00183684000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 0' S line, 660' W line of NW NW
 QUADRANGLE: BOWEN LONGITUDE: -91.082622 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.176278 DATE COLLECTED: 4 / 5 / 1976
 SURFACE ELEVATION (FT.): 687.9 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL352 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
687.9	PLEISTOCENE		SILT	3.0	0.0
684.9	PLEISTOCENE		CLAY	7.0	3.0
677.9	PLEISTOCENE		UNCONSOLIDATED	46.0	10.0
631.9	CARBONDALE		GRAY SHALE	20.0	56.0
611.9	CARBONDALE	COLCHESTER	COAL	2.5	76.0
609.4	CARBONDALE		UNDERCLAY	1.5	78.5
607.9	CARBONDALE		GRAY SHALE	8.0	80.0

MAPID: 00183685000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 20' S line, 20' E line of NW NW

QUADRANGLE: BOWEN LONGITUDE: -91.080273 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.176323 DATE COLLECTED: 4 / 5 / 1976

SURFACE ELEVATION (FT.): 694.9 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: AMAX CL353 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
694.9	PLEISTOCENE		SILT	3.0	0.0
691.9	PLEISTOCENE		CLAY	10.0	3.0
681.9	PLEISTOCENE		UNCONSOLIDATED	40.0	13.0
641.9	PLEISTOCENE		SAND & GRAVEL	6.0	53.0
635.9	CARBONDALE		GRAY SHALE	22.0	59.0
613.9	CARBONDALE	COLCHESTER	COAL	2.5	81.0
611.4	CARBONDALE		UNDERCLAY	1.5	83.5
609.9	CARBONDALE		GRAY SHALE	3.0	85.0

MAPID: 00183686000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 660' N line, 35' W line of NW NW

QUADRANGLE: BOWEN LONGITUDE: -91.084823 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.17812 DATE COLLECTED: 4 / 8 / 1976

SURFACE ELEVATION (FT.): 687.2 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log

SOURCE: AMAX CL376 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
687.2	PLEISTOCENE		SILT	1.0	0.0
686.2	PLEISTOCENE		CLAY	11.0	1.0
675.2	PLEISTOCENE		SANDY CLAY	50.0	12.0
625.2	CARBONDALE		GRAY SHALE	11.0	62.0
614.2	CARBONDALE	COLCHESTER	COAL	2.5	73.0
611.7	CARBONDALE		UNDERCLAY	0.5	75.5

MAPID: 00183687000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 165' N line, 30' W line of NW NW
 QUADRANGLE: BOWEN LONGITUDE: -91.084807 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.179483 DATE COLLECTED: 3 / 3 / 1976
 SURFACE ELEVATION (FT.): 693.1 LOGGED (FT.): 81.0 LOG TYPE: Drillers Log
 SOURCE: AMAX 00183687 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.1	PLEISTOCENE		CLAY	4.0	0.0	
689.1	PLEISTOCENE		UNCONSOLIDATED	73.0	4.0	
616.1	CARBONDALE	COLCHESTER	COAL	1.0	77.0	TOP ERODED
615.1	CARBONDALE		UNDERCLAY	3.0	78.0	

MAPID: 00183688000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 660' N line, 660' W line of NW NW
 QUADRANGLE: BOWEN LONGITUDE: -91.082573 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.178108 DATE COLLECTED: 4 / 8 / 1976
 SURFACE ELEVATION (FT.): 694.3 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL377 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
694.3	PLEISTOCENE		SILT	3.0	0.0	
691.3	PLEISTOCENE		CLAY	7.0	3.0	
684.3	PLEISTOCENE		CLAY	45.0	10.0	
639.3	CARBONDALE		GRAY SHALE	23.0	55.0	
616.3	CARBONDALE	COLCHESTER	COAL	2.5	78.0	
613.8	CARBONDALE		UNDERCLAY	1.5	80.5	
612.3	CARBONDALE		GRAY SHALE	6.0	82.0	

MAPID: 00183689000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 660' N line, 20' E line of NW NW
 QUADRANGLE: BOWEN LONGITUDE: -91.080231 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.178095 DATE COLLECTED: 4 / 2 / 1976
 SURFACE ELEVATION (FT.): 691.8 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL378 WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
691.8	PLEISTOCENE		SILT	3.0	0.0
688.8	PLEISTOCENE		CLAY	7.0	3.0
681.8	PLEISTOCENE		UNCONSOLIDATED	20.0	10.0
661.8	PLEISTOCENE		SAND & GRAVEL	23.0	30.0
638.8	CARBONDALE		GRAY SHALE	23.0	53.0
615.8	CARBONDALE	COLCHESTER	COAL	3.0	76.0
612.8	CARBONDALE		UNDERCLAY	2.0	79.0
610.8	CARBONDALE		GRAY SHALE	7.0	81.0

MAPID: 00183690000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 40' N line, 770' W line of NW NW
 QUADRANGLE: BOWEN LONGITUDE: -91.082137 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.179817 DATE COLLECTED: 3 / 8 / 1976
 SURFACE ELEVATION (FT.): 692.2 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CL402Y WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
692.2	PLEISTOCENE		SILT	1.0	0.0
691.2	PLEISTOCENE		CLAY	9.0	1.0
682.2	PLEISTOCENE		UNCONSOLIDATED	18.0	10.0
664.2	PLEISTOCENE		SAND & GRAVEL	29.0	28.0
635.2	CARBONDALE		GRAY SHALE	15.5	57.0
619.7	CARBONDALE	COLCHESTER	COAL	2.5	72.5
617.2	CARBONDALE		UNDERCLAY	1.0	75.0
616.2	CARBONDALE		GRAY SHALE	12.0	76.0

MAPID: 00183691000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 10 QUARTERS/FOOTAGES: 40' N line, 15' E line of NW NW

QUADRANGLE: BOWEN LONGITUDE: -91.080172 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.179807 DATE COLLECTED: 3 / 3 / 1976

SURFACE ELEVATION (FT.): 693.7 LOGGED (FT.): 88.0 LOG TYPE: Drillers Log

SOURCE: AMAX CL403 WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.7	PLEISTOCENE		SILT	1.0	0.0	
692.7	PLEISTOCENE		CLAY	9.0	1.0	
683.7	PLEISTOCENE		UNCONSOLIDATED	43.0	10.0	
640.7	CARBONDALE		LIMESTONE	2.5	53.0	
638.2	CARBONDALE		BLACK SHALE	2.0	55.5	
636.2	CARBONDALE		GRAY SHALE	18.5	57.5	
617.7	CARBONDALE	COLCHESTER	COAL	2.5	76.0	
615.2	CARBONDALE		UNDERCLAY	1.5	78.5	
613.7	CARBONDALE		GRAY SHALE	8.0	80.0	LIMY

MAPID: 00122570000C VERSION: 1

PROJECT: NCRDS95

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 12 QUARTERS/FOOTAGES: 1' N line, 1' E line

QUADRANGLE: BOWEN LONGITUDE: -91.027488 GEOLOGIST: KOROSE

CONFIDENTIAL: N LATITUDE: 40.179913 DATE COLLECTED: 9 / 7 / 1967

SURFACE ELEVATION (FT.): 698.0 LOGGED (FT.): 96.0 LOG TYPE: Drillers Log

SOURCE: PITTSBURG & MIDWAY 1-W WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
698.0	PLEISTOCENE		CLAY	34.0	0.0	
664.0			DARK SHALE	39.0	34.0	
625.0			SANDSTONE	23.0	73.0	

MAPID: 00183607000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 16 QUARTERS/FOOTAGES: 160' S line, 660' W line of NE SW
 QUADRANGLE: BOWEN LONGITUDE: -91.097425 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.154926 DATE COLLECTED: 3 / 8 / 1976
 SURFACE ELEVATION (FT.): 689.9 LOGGED (FT.): 148.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK70J WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
689.9	PLEISTOCENE		SILT	1.0	0.0
688.9	PLEISTOCENE		CLAY	9.0	1.0
679.9	PLEISTOCENE		UNCONSOLIDATED	58.0	10.0
621.9	PLEISTOCENE		SAND & GRAVEL	64.5	68.0
557.4			LIMESTONE	15.5	132.5

MAPID: 00183608000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 16 QUARTERS/FOOTAGES: 15' N line, 740' W line of NW SW
 QUADRANGLE: BOWEN LONGITUDE: -91.101859 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.158184 DATE COLLECTED: 3 / 8 / 1976
 SURFACE ELEVATION (FT.): 688.9 LOGGED (FT.): 118.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK118Y WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
688.9	PLEISTOCENE		SILT	2.0	0.0
686.9	PLEISTOCENE		CLAY	14.0	2.0
672.9	PLEISTOCENE		UNCONSOLIDATED	44.0	16.0
628.9	PLEISTOCENE		SAND & GRAVEL	50.0	60.0
578.9			GRAY SHALE	8.0	110.0

MAPID: 00183609000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 18 QUARTERS/FOOTAGES: 10' N line, 35' E line of SE NE
 QUADRANGLE: BOWEN LONGITUDE: -91.123378 GEOLOGIST: PHILLIPS
 CONFIDENTIAL: N LATITUDE: 40.162058 DATE COLLECTED: 3 / 10 / 1976
 SURFACE ELEVATION (FT.): 687.1 LOGGED (FT.): 108.0 LOG TYPE: Drillers Log
 SOURCE: AMAX CK134D WELL TYPE: Coal Test
 COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
687.1	PLEISTOCENE		SILT	2.0	0.0
685.1	PLEISTOCENE		CLAY	10.0	2.0
675.1	PLEISTOCENE		UNCONSOLIDATED	40.0	12.0
635.1	PLEISTOCENE		SAND & GRAVEL	55.0	52.0
580.1			LIMESTONE	1.0	107.0

MAPID: 00100027000C VERSION: 1

PROJECT: NCRDS87

COUNTY: ADAMS TWP/RNG: 2N 6W SECTION: 36 QUARTERS/FOOTAGES: SE NW NW SW

QUADRANGLE: CAMP POINT LONGITUDE: -91.046164 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 40.112638 DATE COLLECTED:

SURFACE ELEVATION (FT.): 693.8 LOGGED (FT.): 63.0 LOG TYPE: Drillers Log

SOURCE: JOHN IHRIG (FARM) WELL TYPE: Coal Test

COMMENT: LOCATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.8			UNCONSOLIDATED	37.0	0.0	
656.8	CARBONDALE		UNCLASSIFIED	17.0	37.0	
639.8	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.0	54.0	
638.8	CARBONDALE	COLCHESTER	COAL	2.5	55.0	
636.3	SPOON		UNDERCLAY	3.5	57.5	
632.8	SPOON		LIMESTONE	2.0	61.0	

MAPID: 00183606000C VERSION: 1

PROJECT: NCRDS02

COUNTY: ADAMS TWP/RNG: 2N 7W SECTION: 13 QUARTERS/FOOTAGES: 0' S line, 165' W line of NW NE

QUADRANGLE: LORAINÉ LONGITUDE: -91.154432 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 40.162537 DATE COLLECTED: 1 / 29 / 1976

SURFACE ELEVATION (FT.): 667.5 LOGGED (FT.): 118.0 LOG TYPE: Drillers Log

SOURCE: AMAX CJ171N WELL TYPE: Coal Test

COMMENT: CAMP POINT BOX 43

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.5	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0	
662.5	PLEISTOCENE		CLAY	9.0	5.0	BROWN
653.5	PLEISTOCENE		CLAY	36.0	14.0	GRAY
617.5	PLEISTOCENE		CLAY	24.0	50.0	BROWN
593.5	PLEISTOCENE		SAND & GRAVEL	20.5	74.0	
573.0	PLEISTOCENE		GRAY SANDSTONE	1.5	94.5	
571.5			LIMESTONE	5.0	96.0	
566.5			GRAY SANDSTONE	3.0	101.0	
563.5			LIMESTONE	11.7	104.0	
551.8			GRAY SHALE	2.3	115.7	

MAPID: 00121221000C VERSION: 1

PROJECT: BLM

COUNTY: ADAMS

TWP/RNG: 2S 5W

SECTION: 4

QUARTERS/FOOTAGES: SE SE NE

QUADRANGLE: KELLERVILLE

LONGITUDE: -90.974875

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N

LATITUDE: 39.924701

DATE COLLECTED: 4 / 0 / 1976

SURFACE ELEVATION (FT.): 690.0

LOGGED (FT.): 345.0

LOG TYPE: Drillers Log

SOURCE: J. B. BUSHNELL, DRLG. CONTR.

WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
690.0			UNCONSOLIDATED	48.0	0.0	
642.0			SHALE	54.0	48.0	
588.0			COAL	4.0	102.0	
584.0			ROCK	239.0	106.0	

MAPID: 001163B0001F VERSION: 1

PROJECT: BLM

COUNTY: ADAMS

TWP/RNG: 2S 5W

SECTION: 20

QUARTERS/FOOTAGES: SW SE SW NE

QUADRANGLE: KELLERVILLE

LONGITUDE: -90.99959

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N

LATITUDE: 39.881659

DATE COLLECTED: 5 / 19 / 1961

SURFACE ELEVATION (FT.): 673.0

LOGGED (FT.): 63.6

LOG TYPE: Measured section

SOURCE: FLD NOTES-REINERTSEN

WELL TYPE: Outcrop

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
673.0			UNCONSOLIDATED	36.0	0.0	
637.0			ROCK	8.8	36.0	
628.2	CARBONDALE	COLCHESTER	COAL	1.5	44.8	ELEV. 629'
626.7			ROCK	17.3	46.3	

MAPID: 001163B0002F VERSION: 1

PROJECT: BLM

COUNTY: ADAMS

TWP/RNG: 2S 5W

SECTION: 22

QUARTERS/FOOTAGES: SE NW SE

QUADRANGLE: KELLERVILLE

LONGITUDE: -90.960967

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N

LATITUDE: 39.878434

DATE COLLECTED: 5 / 19 / 1961

SURFACE ELEVATION (FT.): 622.0

LOGGED (FT.): 1.8

LOG TYPE: Measured section

SOURCE: FLD NOTES-REINERTSEN

WELL TYPE: Outcrop

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.0			BLACK SHALE	0.3	0.0	
621.8	CARBONDALE	COLCHESTER	COAL	1.4	0.2	ELEV. 622'
620.3			UNDERCLAY	0.2	1.7	

MAPID: 00100029000C **VERSION:** 1 **PROJECT:** BLM
COUNTY: ADAMS **TWP/RNG:** 2S 5W **SECTION:** 24 **QUARTERS/FOOTAGES:** NW SW
QUADRANGLE: KELLERVILLE **LONGITUDE:** -90.93349 **GEOLOGIST:** TREWORYG,J
CONFIDENTIAL: N **LATITUDE:** 39.879224 **DATE COLLECTED:** 12 / 0 / 1946
SURFACE ELEVATION (FT.): 644.0 **LOGGED (FT.):** 41.0 **LOG TYPE:** Drillers Log
SOURCE: DEPT. OF CONSERVATION-DAM SITE **WELL TYPE:** Engineering Test Holes
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
644.0			UNCONSOLIDATED	20.0	0.0	
624.0			ROCK	15.0	20.0	
609.0			COAL	2.0	35.0	
607.0			ROCK	4.0	37.0	

MAPID: 00100252000C **VERSION:** 1 **PROJECT:** BLM
COUNTY: ADAMS **TWP/RNG:** 2S 5W **SECTION:** 24 **QUARTERS/FOOTAGES:** NW SW
QUADRANGLE: KELLERVILLE **LONGITUDE:** -90.93349 **GEOLOGIST:** TREWORYG,J
CONFIDENTIAL: N **LATITUDE:** 39.879224 **DATE COLLECTED:** 12 / 0 / 1946
SURFACE ELEVATION (FT.): 631.0 **LOGGED (FT.):** 23.5 **LOG TYPE:** Drillers Log
SOURCE: DEPT. OF CONSERVATION-DAM SITE **WELL TYPE:** Engineering Test Holes
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
631.0			UNCONSOLIDATED	21.0	0.0	
610.0			COAL	2.3	21.0	
607.7			ROCK	0.3	23.3	

MAPID: 00100253000C **VERSION:** 1 **PROJECT:** BLM
COUNTY: ADAMS **TWP/RNG:** 2S 5W **SECTION:** 24 **QUARTERS/FOOTAGES:** NW SW
QUADRANGLE: KELLERVILLE **LONGITUDE:** -90.93349 **GEOLOGIST:** TREWORYG,J
CONFIDENTIAL: N **LATITUDE:** 39.879224 **DATE COLLECTED:** 12 / 0 / 1946
SURFACE ELEVATION (FT.): 618.0 **LOGGED (FT.):** 15.5 **LOG TYPE:** Drillers Log
SOURCE: DEPT. OF CONSERVATION-DAM SITE **WELL TYPE:** Engineering Test Holes
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
618.0			UNCONSOLIDATED	9.0	0.0	
609.0			COAL	-	9.0	
609.0			ROCK	6.5	9.0	COAL AND CLAY 9'-12.5' DEPTH

MAPID: 001163B0004F VERSION: 1

PROJECT: BLM

COUNTY: ADAMS

TWP/RNG: 2S 5W

SECTION: 24

QUARTERS/FOOTAGES: NW NW SW

QUADRANGLE: KELLERVILLE

LONGITUDE: -90.934687

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N

LATITUDE: 39.880137

DATE COLLECTED: 10 / 0 / 1960

SURFACE ELEVATION (FT.): 620.0

LOGGED (FT.): 21.5

LOG TYPE: Measured section

SOURCE: FLD NOTES-REINERTSEN

WELL TYPE: Outcrop

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.0			UNCONSOLIDATED	8.0	0.0	
612.0			ROCK	10.1	8.0	
601.9	CARBONDALE	COLCHESTER	COAL	1.3	18.1	
600.6			ROCK	2.1	19.4	

MAPID: 001163B0003F VERSION: 1

PROJECT: BLM

COUNTY: ADAMS

TWP/RNG: 2S 5W

SECTION: 24

QUARTERS/FOOTAGES: SW

QUADRANGLE: KELLERVILLE

LONGITUDE: -90.931095

GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N

LATITUDE: 39.877412

DATE COLLECTED: 8 / 25 / 1934

SURFACE ELEVATION (FT.): 650.0

LOGGED (FT.): 42.1

LOG TYPE: Measured section

SOURCE: FLD NOTES-WANLESS

WELL TYPE: Outcrop

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			ROCK	25.4	0.0	
624.6	CARBONDALE	COLCHESTER	COAL	1.5	25.4	
623.2			ROCK	15.3	26.8	

MAPID: 00110164000C VERSION: 1

PROJECT: NCRDS87

COUNTY: ADAMS TWP/RNG: 15N 6E SECTION: 10 QUARTERS/FOOTAGES: 900' S line, 2050' W line

QUADRANGLE: NEPONSET LONGITUDE: -89.792676 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 41.295752 DATE COLLECTED: 0 / 0 / 1955

SURFACE ELEVATION (FT.): 825.0 LOGGED (FT.): 487.0 LOG TYPE: Survey Sample Study

SOURCE: WALLACE ENGINEERING CORP. WELL TYPE: Water Well

COMMENT: ELEVATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
825.0			UNCONSOLIDATED	54.5	0.0	
770.5	MODESTO		GRAY SHALE	59.5	54.5	
711.0	CARBONDALE	DANVILLE	COAL	3.0	114.0	
708.0	CARBONDALE		SHALE	23.0	117.0	
685.0	CARBONDALE		SANDSTONE	7.0	140.0	
678.0	CARBONDALE		SHALE	21.0	147.0	
657.0	CARBONDALE		LIMESTONE	8.0	168.0	
649.0	CARBONDALE		SILTSTONE	9.0	176.0	
640.0	CARBONDALE		SHALE	57.0	185.0	
583.0	CARBONDALE		BLACK SHALE	4.0	242.0	
579.0	CARBONDALE		LIMESTONE	9.0	246.0	
570.0	CARBONDALE		SHALE	35.0	255.0	
535.0	CARBONDALE		LIMESTONE	10.0	290.0	
525.0	CARBONDALE		SHALE	35.0	300.0	
490.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	5.0	335.0	
485.0			LIMESTONE	16.0	340.0	
469.0			SHALE	14.0	356.0	
455.0			UNCLASSIFIED	27.0	370.0	
428.0			COAL	3.0	397.0	
425.0			UNDERCLAY	2.0	400.0	
423.0			SANDSTONE	8.0	402.0	
415.0			SHALE	30.0	410.0	
385.0			SANDSTONE	5.0	440.0	
380.0			SILTSTONE	42.0	445.0	
338.0			UNCLASSIFIED	0.0	487.0	TOP OF DEVONIAN