

Status Report

Total Records: 388

Top 3 County Records		Top 3 Log Type Records		Top 3 Coal Records		Top 3 Member Records	
Grundy	388	Drillers Log	365	COLCHESTER	282	COLCHESTER COAL	282
		Company map	16	HOUCHIN CREEK	40	HERRIN COAL	40
		Survey Core Study	3	HERRIN	40	HOUCHIN CREEK COAL	40

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	113.0	113.0	113.0	0.4	0.4	0.4
HERRIN	COAL	89.9	66.0	124.0	6.5	1.0	10.3
TURNER MINE	SHALE	64.1	64.1	64.1	1.0	1.0	1.0
SPRINGFIELD	COAL	94.0	22.0	186.0	1.6	0.1	4.0
EXCELLO	SHALE	100.4	45.2	138.3	5.6	2.0	11.0
HOUCHIN CREEK	COAL	75.6	12.0	207.0	2.2	0.3	4.3
LOWELL	COAL	102.0	67.0	196.0	2.5	0.5	5.0
MECCA QUARRY	SHALE	88.1	57.0	118.7	2.5	0.7	3.5
FRANCIS CREEK	SANDSTONE	119.4	119.4	119.4	49.4	49.4	49.4
COLCHESTER	COAL	96.9	8.0	258.0	2.5	0.3	5.0
				Net Coal	15.7		

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: 06390019000C VERSION: 1 PROJECT: NCRDS02
COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 3 QUARTERS/FOOTAGES: 1' N line, 1' W line of NW NW NW
QUADRANGLE: KINSMAN LONGITUDE: -88.529219 GEOLOGIST: STRAAYER
CONFIDENTIAL: N LATITUDE: 41.195399 DATE COLLECTED:
SURFACE ELEVATION (FT.): 645.0 LOGGED (FT.): 156.6 LOG TYPE: Drillers Log
SOURCE: AYRSHIRE 211 WELL TYPE: Coal Test
COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
645.0	PLEISTOCENE		UNCONSOLIDATED	96.5	0.0
548.5			SILTSTONE/SANDSTONE	31.3	96.5
517.2			GRAY SHALE	8.3	127.8
509.0			DARK SHALE	6.9	136.0 WITH SIDERITE
502.1			BLACK SHALE	3.4	142.9 WITH FOSSILS
498.7			CLAYSTONE	1.8	146.3
496.8			COAL WITH SHALE	0.2	148.2
496.7			CLAYSTONE	8.3	148.3

MAPID: 06390020000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 4 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW NW

QUADRANGLE: KINSMAN LONGITUDE: -88.548392 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.188205 DATE COLLECTED:

SURFACE ELEVATION (FT.): 652.0 LOGGED (FT.): 131.4 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 209 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
652.0	PLEISTOCENE		UNCONSOLIDATED	93.3	0.0
558.7			BLACK SHALE	13.0	93.3
545.7			DARK SHALE	9.6	106.3
536.2			PYRITE	0.0	115.8
536.2	CARBONDALE	HERRIN	COAL	3.3	115.8
532.8	CARBONDALE	HERRIN	CLAYSTONE	0.2	119.2
532.7	CARBONDALE	HERRIN	COAL	0.1	119.3
532.6	CARBONDALE	HERRIN	CLAYSTONE	0.3	119.4
532.3	CARBONDALE	HERRIN	COAL	1.2	119.7
531.1	CARBONDALE	HERRIN	COAL WITH SHALE	0.2	120.9
531.0	CARBONDALE	HERRIN	CLAYSTONE	0.5	121.0
530.5	CARBONDALE	HERRIN	CLAYSTONE	0.3	121.5
530.1	CARBONDALE	HERRIN	COAL	2.8	121.9
527.3	CARBONDALE	HERRIN	CLAYSTONE	0.1	124.7
527.2	CARBONDALE	HERRIN	COAL	1.4	124.8
525.8	CARBONDALE		SANDSTONE	0.5	126.2
525.3	CARBONDALE		SANDSTONE/CLAYSTONE	4.8	126.7

MAPID: 06390021000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 4 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SW

QUADRANGLE: KINSMAN LONGITUDE: -88.548411 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.181043 DATE COLLECTED:

SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 169.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 214 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0	PLEISTOCENE		UNCONSOLIDATED	98.9	0.0	
551.1	CARBONDALE		COAL	0.2	98.9	TOP ERODED
550.9	CARBONDALE		CLAY & COAL	0.7	99.1	
550.2	CARBONDALE		SHALE/COAL	0.3	99.8	
549.9	CARBONDALE		COAL	0.3	100.1	
549.7	CARBONDALE		DARK SHALE	0.2	100.3	
549.5	CARBONDALE		GRAY SANDSTONE	2.5	100.5	
547.0	CARBONDALE		GRAY SHALE	0.8	103.0	
546.2	CARBONDALE		GRAY SANDSTONE	29.0	103.8	
517.2	CARBONDALE		SANDSTONE/COAL	1.5	132.8	
515.7	CARBONDALE		GRAY SANDSTONE	5.3	134.3	
510.5	CARBONDALE		SANDSTONE/COAL	0.5	139.5	
510.0	CARBONDALE		GRAY SANDSTONE	2.8	140.0	
507.2	CARBONDALE		GRAY SHALE	5.3	142.8	
502.0	CARBONDALE		DARK SHALE	1.8	148.0	
500.2	CARBONDALE		BLACK SHALE	2.3	149.8	
498.0	CARBONDALE		CONGLOMERATE	1.0	152.0	
497.0	CARBONDALE		SANDSTONE	1.0	153.0	
496.0	CARBONDALE		SILTY CLAYSTONE	2.5	154.0	
493.5	CARBONDALE		SANDSTONE	9.0	156.5	
484.5	CARBONDALE		SILTSTONE	3.5	165.5	

MAPID: 06390022000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: GRUNDY **TWP/RNG:** 31N 6E **SECTION:** 4 **QUARTERS/FOOTAGES:** 1' S line, 1' E line of SE SW
QUADRANGLE: KINSMAN **LONGITUDE:** -88.538843 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 41.181091 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 652.0 **LOGGED (FT.):** 166.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE 217 **WELL TYPE:** Coal Test
COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
652.0	PLEISTOCENE		UNCONSOLIDATED	96.0	0.0
556.0			GRAY SANDSTONE	43.0	96.0
513.0			GRAY SHALE	13.0	139.0
500.0			SHALE & SANDSTONE	3.3	152.0
496.7			CONGLOMERATE	0.3	155.3
496.4			SANDSTONE	10.4	155.6

MAPID: 06390023000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: GRUNDY **TWP/RNG:** 31N 6E **SECTION:** 5 **QUARTERS/FOOTAGES:** 1' N line, 1' W line of NW NE
QUADRANGLE: KINSMAN **LONGITUDE:** -88.557908 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 41.195257 **DATE COLLECTED:** 5 / 26 / 1970
SURFACE ELEVATION (FT.): 660.0 **LOGGED (FT.):** 160.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE 216 **WELL TYPE:** Coal Test
COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
660.0	PLEISTOCENE		UNCONSOLIDATED	100.0	0.0
560.0			SANDSTONE	30.0	100.0
530.0			SANDSTONE/CLAYSTONE	5.0	130.0
525.0			SANDSTONE	25.0	135.0

MAPID: 06390024000C **VERSION:** 1 **PROJECT:** NCRDS02
COUNTY: GRUNDY **TWP/RNG:** 31N 6E **SECTION:** 5 **QUARTERS/FOOTAGES:** 1' S line, 1' W line of SW SW SE
QUADRANGLE: KINSMAN **LONGITUDE:** -88.55788 **GEOLOGIST:** STRAAYER
CONFIDENTIAL: N **LATITUDE:** 41.181051 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 660.0 **LOGGED (FT.):** 200.0 **LOG TYPE:** Drillers Log
SOURCE: AYRSHIRE 219 **WELL TYPE:** Coal Test
COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
660.0	PLEISTOCENE		UNCONSOLIDATED	200.0	0.0

MAPID: 06390025000C VERSION: 1

PROJECT: NCRDS032

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 5 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SW NE

QUADRANGLE: KINSMAN LONGITUDE: -88.557892 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.188156 DATE COLLECTED:

SURFACE ELEVATION (FT.): 659.0 LOGGED (FT.): 196.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 222 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.0	PLEISTOCENE		UNCONSOLIDATED	110.0	0.0	
549.0			SILTSTONE	11.0	110.0	
538.0			GRAY SANDSTONE	17.8	121.0	
520.2			GRAY SHALE	11.0	138.8	
509.2			BLACK SHALE	3.0	149.8	
506.2			CONGLOMERATE	0.1	152.8	PYRITE
506.2			GRAY SANDSTONE	2.0	152.8	
504.2			SILTSTONE	22.2	154.8	
482.0			GRAY SHALE	9.0	177.0	
473.0			SHALE	10.0	186.0	

MAPID: 06390026000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 7 QUARTERS/FOOTAGES: 1' N line, 1' W line of NW SW

QUADRANGLE: KINSMAN LONGITUDE: -88.586496 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.173575 DATE COLLECTED:

SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 165.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 212 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0	PLEISTOCENE		UNCONSOLIDATED	165.0	0.0	

MAPID: 06390027000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 7 QUARTERS/FOOTAGES: 1' N line, 660' E line of NE SE

QUADRANGLE: KINSMAN LONGITUDE: -88.569606 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.173707 DATE COLLECTED: 5 / 29 / 1970

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 186.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 224 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0	PLEISTOCENE		UNCONSOLIDATED	130.0	0.0	
532.0			SHALE	3.0	130.0	
529.0			BLACK SHALE	19.5	133.0	
509.5			COAL	9.0	152.5	
500.5			GRAY SHALE	5.5	161.5	
495.0			DARK SHALE	19.0	167.0	

MAPID: 06390028000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 7 QUARTERS/FOOTAGES: 1' N line, 1' W line of NW SW SE

QUADRANGLE: KINSMAN LONGITUDE: -88.576744 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.170011 DATE COLLECTED: 0 / 0 / 1971

SURFACE ELEVATION (FT.): 667.0 LOGGED (FT.): 212.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 303 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
667.0	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0	
664.0	PLEISTOCENE		GRAVEL	42.0	3.0	
622.0	PLEISTOCENE		UNCONSOLIDATED	77.0	45.0	WITH SHALE
545.0			COAL	2.0	122.0	
543.0			GRAY SHALE	26.0	124.0	
517.0			DARK SHALE	19.0	150.0	
498.0			BLACK SHALE	4.0	169.0	
494.0			SHALE	39.0	173.0	GREEN

MAPID: 06390029000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 7 QUARTERS/FOOTAGES: 1' N line, 1' E line of NE SW SE

QUADRANGLE: KINSMAN LONGITUDE: -88.571937 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.170035 DATE COLLECTED: 0 / 0 / 1971

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 197.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 304 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0	
658.0	PLEISTOCENE		CLAY	10.0	4.0	
648.0	PLEISTOCENE		UNCONSOLIDATED	105.0	14.0	
543.0			SHALE	13.0	119.0	
530.0			BLACK SHALE	24.0	132.0	
506.0			COAL	8.0	156.0	
498.0			CLAYSTONE	33.0	164.0	LIGHT GREY

MAPID: 06390030000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 7 QUARTERS/FOOTAGES: 660' N line, 660' E line of SW SE

QUADRANGLE: KINSMAN LONGITUDE: -88.574297 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.168208 DATE COLLECTED: 0 / 0 / 1971

SURFACE ELEVATION (FT.): 672.0 LOGGED (FT.): 269.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 307 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
672.0	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0	
668.0	PLEISTOCENE		CLAY	14.0	4.0	
654.0	PLEISTOCENE		UNCONSOLIDATED	103.0	18.0	WITH SHALE
551.0	PLEISTOCENE		UNCONSOLIDATED	86.0	121.0	
465.0			BLACK SHALE	28.0	207.0	
437.0			COAL	10.0	235.0	
427.0			GRAY SHALE	24.0	245.0	

MAPID: 06390031000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 7 QUARTERS/FOOTAGES: 660' N line, 660' W line of SE SE

QUADRANGLE: KINSMAN LONGITUDE: -88.569483 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.168231 DATE COLLECTED: 0 / 0 / 1971

SURFACE ELEVATION (FT.): 659.0 LOGGED (FT.): 215.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 308 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
659.0	PLEISTOCENE		UNCONSOLIDATED	4.0	0.0
655.0	PLEISTOCENE		CLAY	12.0	4.0
643.0	PLEISTOCENE		UNCONSOLIDATED	18.0	16.0
625.0			GRAY SHALE	111.0	34.0
514.0			BLACK SHALE	24.0	145.0
490.0			COAL	11.0	169.0
479.0			CLAYSTONE	35.0	180.0

MAPID: 06390032000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 7 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SW SE

QUADRANGLE: KINSMAN LONGITUDE: -88.576643 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.166378 DATE COLLECTED: 4 / 26 / 1971

SURFACE ELEVATION (FT.): 664.0 LOGGED (FT.): 172.6 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 310 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
664.0	PLEISTOCENE		UNCONSOLIDATED	121.0	0.0
543.0			GRAY SHALE	18.0	121.0
525.0			BLACK SHALE	21.5	139.0
503.5			COAL	9.5	160.5
494.0			UNDERCLAY	2.6	170.0

MAPID: 06390033000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 7 QUARTERS/FOOTAGES: 1' S line, 1' E line of SE SW SE

QUADRANGLE: KINSMAN LONGITUDE: -88.571851 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.166391 DATE COLLECTED: 0 / 0 / 1971

SURFACE ELEVATION (FT.): 659.0 LOGGED (FT.): 155.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 311 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.0	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0	
654.0	PLEISTOCENE		CLAY	13.0	5.0	
641.0	PLEISTOCENE		UNCONSOLIDATED	111.0	18.0	WITH SHALE
530.0	PLEISTOCENE		UNCONSOLIDATED	9.0	129.0	
521.0	PLEISTOCENE		BLACK SHALE	17.0	138.0	

MAPID: 06390034000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 7 QUARTERS/FOOTAGES: 660' S line, 1' E line of SE SW

QUADRANGLE: KINSMAN LONGITUDE: -88.576699 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.168196 DATE COLLECTED: 4 / 27 / 1971

SURFACE ELEVATION (FT.): 666.0 LOGGED (FT.): 197.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 313 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.0	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0	
663.0	PLEISTOCENE		CLAY	15.0	3.0	
648.0	PLEISTOCENE		UNCONSOLIDATED	103.0	18.0	
545.0			DARK SHALE	7.0	121.0	
538.0			COAL	5.0	128.0	
533.0			CLAYSTONE	5.0	133.0	
528.0			DARK SHALE	17.0	138.0	
511.0			SHALE	12.0	155.0	
499.0			SANDSTONE	21.0	167.0	
478.0			SHALE	9.0	188.0	

MAPID: 06390035000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 7 QUARTERS/FOOTAGES: 660' N line, 660' E line of SE SW

QUADRANGLE: KINSMAN LONGITUDE: -88.579104 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.168181 DATE COLLECTED: 4 / 28 / 1971

SURFACE ELEVATION (FT.): 669.0 LOGGED (FT.): 180.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 314 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.0	PLEISTOCENE		UNCONSOLIDATED	117.0	0.0	
552.0			GRAY SHALE	1.0	117.0	
551.0			COAL/CLAYSTONE	1.0	118.0	WEATHERED
550.0			CALCAREOUS SHALE	14.0	119.0	
536.0			GRAY SHALE	5.0	133.0	SOFT
531.0			BLACK SHALE	17.0	138.0	
514.0			COAL	10.0	155.0	
504.0			GRAY SHALE	5.0	165.0	
499.0			BROWN LIMESTONE	1.0	170.0	
498.0			SHALE	3.0	171.0	
495.0			SANDSTONE	6.0	174.0	

MAPID: 06390036000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 7 QUARTERS/FOOTAGES: 1' N line, 660' W line of SW SE

QUADRANGLE: KINSMAN LONGITUDE: -88.574338 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.170023 DATE COLLECTED: 4 / 29 / 1971

SURFACE ELEVATION (FT.): 669.0 LOGGED (FT.): 190.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 315 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
669.0	PLEISTOCENE		UNCONSOLIDATED	115.0	0.0	
554.0			CALCAREOUS SHALE	11.0	115.0	
543.0			DARK SHALE	4.0	126.0	
539.0			BLACK SHALE	16.0	130.0	
523.0			COAL	8.0	146.0	
515.0			UNDERCLAY	4.0	154.0	
511.0			GRAY SHALE	2.0	158.0	
509.0			LIMESTONE	3.0	160.0	
506.0			SHALE & SANDSTONE	2.0	163.0	
504.0			SANDSTONE	16.0	165.0	
488.0			CALCAREOUS SHALE	9.0	181.0	

MAPID: 06390037000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 7 QUARTERS/FOOTAGES: 1' N line, 1' W line of NW SW SE

QUADRANGLE: KINSMAN LONGITUDE: -88.576744 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.170011 DATE COLLECTED: 4 / 30 / 1971

SURFACE ELEVATION (FT.): 668.0 LOGGED (FT.): 205.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 316 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.0	PLEISTOCENE		UNCONSOLIDATED	14.0	0.0	
654.0			GRAY SHALE	7.0	14.0	
647.0			SHALE	1.0	21.0	WITH PEA GRAVEL
646.0			DARK SHALE	7.0	22.0	
639.0			ROCK	4.0	29.0	DRILLER REPORTS GRAVEL
635.0			GRAY SHALE	3.0	33.0	GUMMY
632.0			SILTY SHALE	60.0	36.0	
572.0			DARK SHALE	20.0	96.0	GUMMY
552.0			SHALE WITH LIMESTONE	4.0	116.0	FOSSILS
548.0			COAL	2.0	120.0	
546.0			UNDERCLAY	1.5	122.0	
544.5			SANDSTONE	6.0	123.5	
538.5			GRAY SHALE	1.5	129.5	
537.0			SANDSTONE	52.0	131.0	
485.0			SILTY SHALE	20.0	183.0	
465.0			SANDSTONE	2.0	203.0	

MAPID: 06390038000C VERSION: 1

PROJECT: NCRDS023

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 7 QUARTERS/FOOTAGES: 660' N line, 1' W line of SE SW

QUADRANGLE: KINSMAN LONGITUDE: -88.581498 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.168169 DATE COLLECTED: 4 / 30 / 1971

SURFACE ELEVATION (FT.): 663.0 LOGGED (FT.): 184.5 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 326 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.0	PLEISTOCENE		UNCONSOLIDATED	116.0	0.0	
547.0			LIMESTONE & SHALE	2.0	116.0	
545.0			DARK SHALE	10.5	118.0	
534.5			COAL	5.5	128.5	
529.0			UNDERCLAY	2.5	134.0	
526.5			SANDSTONE/SHALE	25.0	136.5	
501.5			GRAY SHALE	3.0	161.5	
498.5			SANDSTONE	8.0	164.5	
490.5			SILTY SHALE	6.0	172.5	
484.5			SANDSTONE	6.0	178.5	

MAPID: 06390039000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 8 QUARTERS/FOOTAGES: 1' S line, 1' E line of SE SW SW

QUADRANGLE: KINSMAN LONGITUDE: -88.56231 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.166419 DATE COLLECTED:

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 202.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 203 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0	PLEISTOCENE		UNCONSOLIDATED	110.9	0.0	
549.1			CLAYSTONE	2.8	110.9	
546.2			BLACK SHALE	12.8	113.8	WITH IRONSTONE NODULE
533.4			BLACK SHALE	14.3	126.6	
519.1			COAL	2.5	140.9	
516.6			PYRITE	0.1	143.4	
516.5			COAL	0.2	143.5	
516.3			UNDERCLAY	0.0	143.7	
516.3			COAL	0.1	143.7	
516.2			UNDERCLAY	0.0	143.8	
516.2			COAL	1.1	143.8	
515.2			COAL WITH SHALE	1.2	144.8	
514.0			COAL	4.9	146.0	
509.1			SANDSTONE/CLAYSTONE	2.0	150.9	
507.1			SANDSTONE	3.5	152.9	
503.6			GRAY SANDSTONE	8.0	156.4	
495.6			DARK SHALE	2.0	164.4	
493.6			BLACK SHALE	6.2	166.4	
487.4			SILTY CLAYSTONE	2.8	172.6	
484.6			CLAYSTONE	10.0	175.4	
474.6			CLAYSTONE	16.6	185.4	WITH SIDERITE

MAPID: 06390040000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 8 QUARTERS/FOOTAGES: 1' N line, 1' E line of NE NW NW

QUADRANGLE: KINSMAN LONGITUDE: -88.562618 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.181047 DATE COLLECTED: 6 / 17 / 1970

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 200.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 233 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0	PLEISTOCENE		UNCONSOLIDATED	200.0	0.0	NO COAL

MAPID: 06390041000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 8 QUARTERS/FOOTAGES: 1' S line, 1' E line of SE SW NW
 QUADRANGLE: KINSMAN LONGITUDE: -88.562466 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.173737 DATE COLLECTED: 6 / 18 / 1970
 SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 225.3 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 234 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0	PLEISTOCENE		UNCONSOLIDATED	147.0	0.0	
513.0	PLEISTOCENE		GRAVEL	28.0	147.0	
485.0			BLACK SHALE	2.8	175.0	
482.2			SILTY SHALE	47.5	177.8	

MAPID: 06390042000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 8 QUARTERS/FOOTAGES: 1' N line, 1' W line of NW NW SW
 QUADRANGLE: KINSMAN LONGITUDE: -88.567193 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.173724 DATE COLLECTED: 4 / 13 / 1971
 SURFACE ELEVATION (FT.): 658.0 LOGGED (FT.): 186.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 301 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
658.0	PLEISTOCENE		UNCONSOLIDATED	164.0	0.0	
494.0			GRAY SHALE	9.0	164.0	SOFT
485.0			BLACK SHALE	2.0	173.0	
483.0			UNDERCLAY	4.0	175.0	
479.0			GRAY SHALE	3.0	179.0	
476.0			GRAY SHALE	4.0	182.0	

MAPID: 06390043000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 8 QUARTERS/FOOTAGES: 660' N line, 1' W line of NW SW

QUADRANGLE: KINSMAN LONGITUDE: -88.567155 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.171906 DATE COLLECTED: 5 / 6 / 1971

SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 225.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 302 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0	PLEISTOCENE		UNCONSOLIDATED	16.0	0.0	
639.0			SILTY SHALE	19.0	16.0	
620.0			UNKNOWN	5.0	35.0	DRILLER REPORTS PEA GRAVEL
615.0			SHALE	90.0	40.0	
525.0			DARK SHALE	5.0	130.0	
520.0			BLACK SHALE	16.0	135.0	PYRITE
504.0			COAL	5.0	151.0	
499.0			UNDERCLAY	9.0	156.0	
490.0			SANDSTONE/SILTSTONE	16.0	165.0	
474.0			SILTY SHALE	44.0	181.0	

MAPID: 06390044000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 8 QUARTERS/FOOTAGES: 1' N line, 1' W line of NW SW SW

QUADRANGLE: KINSMAN LONGITUDE: -88.567118 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.170061 DATE COLLECTED: 4 / 14 / 1971

SURFACE ELEVATION (FT.): 657.0 LOGGED (FT.): 173.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 305 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
657.0	PLEISTOCENE		UNCONSOLIDATED	129.0	0.0	
528.0			CALCAREOUS SHALE	15.0	129.0	
513.0			BLACK SHALE	9.0	144.0	
504.0			COAL	9.0	153.0	
495.0			UNDERCLAY	2.0	162.0	
493.0			GRAY SHALE	9.0	164.0	

MAPID: 06390045000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 8 QUARTERS/FOOTAGES: 1' N line, 1' E line of SW SW

QUADRANGLE: KINSMAN LONGITUDE: -88.562388 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.170074 DATE COLLECTED: 4 / 16 / 1971

SURFACE ELEVATION (FT.): 657.0 LOGGED (FT.): 179.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 306 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
657.0	PLEISTOCENE		UNCONSOLIDATED	142.0	0.0
515.0			BLACK SHALE	3.0	142.0
512.0			COAL/CLAYSTONE	11.0	145.0
501.0			UNDERCLAY	4.0	156.0
497.0			SANDY SHALE	10.0	160.0
487.0			BLACK SHALE	1.0	170.0
486.0			COAL	2.0	171.0
484.0			BLACK SHALE	1.0	173.0
483.0			UNDERCLAY	1.0	174.0
482.0			GRAY SHALE	4.0	175.0

MAPID: 06390046000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 8 QUARTERS/FOOTAGES: 660' N line, 660' W line of SW SW

QUADRANGLE: KINSMAN LONGITUDE: -88.564676 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.168249 DATE COLLECTED: 4 / 14 / 1971

SURFACE ELEVATION (FT.): 658.0 LOGGED (FT.): 176.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 309 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
658.0	PLEISTOCENE		UNCONSOLIDATED	127.0	0.0
531.0			GRAY SHALE	13.0	127.0
518.0			DARK SHALE	15.0	140.0
503.0			COAL	3.0	155.0
500.0			PYRITE	1.0	158.0
499.0			CLAYSTONE	2.0	159.0
497.0			PYRITE	2.0	161.0
495.0			CLAYSTONE	3.0	163.0
492.0			UNDERCLAY	4.0	166.0
488.0			GRAY SHALE	6.0	170.0

MAPID: 06390047000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 8 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SW SW
 QUADRANGLE: KINSMAN LONGITUDE: -88.567044 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.166403 DATE COLLECTED: 4 / 17 / 1971
 SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 174.9 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 312 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0	PLEISTOCENE		UNCONSOLIDATED	115.0	0.0	
545.0			CALCAREOUS SHALE	15.0	115.0	
530.0			BLACK SHALE	20.0	130.0	WITH PYRITE NODULES
510.0			CLAYSTONE	1.3	150.0	
508.7			COAL	0.7	151.3	
508.0			PYRITE	0.1	152.0	
507.9			COAL	9.8	152.1	
498.1			GRAY SHALE	1.0	161.9	
497.1			GRAY SHALE	4.0	162.9	
493.1			SANDSTONE/SHALE	8.0	166.9	

MAPID: 06390048000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 9 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SW
 QUADRANGLE: KINSMAN LONGITUDE: -88.54809 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.166475 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 185.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 206 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0	PLEISTOCENE		UNCONSOLIDATED	185.0	0.0	

MAPID: 06390049000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 9 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW NW
 QUADRANGLE: KINSMAN LONGITUDE: -88.548249 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.173758 DATE COLLECTED: 5 / 27 / 1970
 SURFACE ELEVATION (FT.): 655.0 LOGGED (FT.): 200.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 220 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
655.0	PLEISTOCENE		UNCONSOLIDATED	195.0	0.0	
460.0			SHALE	5.0	195.0	

MAPID: 06390050000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 17 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SW NW
 QUADRANGLE: KINSMAN LONGITUDE: -88.566992 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.159188 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 191.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 228 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
662.0	PLEISTOCENE		UNCONSOLIDATED	130.0	0.0
532.0			DARK SHALE	55.0	130.0
477.0			BLACK SHALE	4.0	185.0
473.0			GRAY SHALE	2.0	189.0

MAPID: 06390051000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 17 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW NW
 QUADRANGLE: KINSMAN LONGITUDE: -88.566992 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.159188 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 206.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 229 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
660.0	PLEISTOCENE		UNCONSOLIDATED	124.0	0.0
536.0			SHALE	5.0	124.0
531.0			SHALE & CLAYSTONE	19.0	129.0
512.0			DARK SHALE	34.0	148.0
478.0			SHALE/COAL	2.0	182.0
476.0			DARK SHALE	1.0	184.0
475.0			GRAY SHALE	21.0	185.0

MAPID: 06390052000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 17 QUARTERS/FOOTAGES: 1' N line, 1' E line of NE NE NW
 QUADRANGLE: KINSMAN LONGITUDE: -88.557573 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.166431 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 206.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 230 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0	PLEISTOCENE		UNCONSOLIDATED	147.0	0.0	
513.0			COAL	1.0	147.0	TOP ERODED
512.0			GRAY SHALE	18.0	148.0	
494.0			BLACK SHALE	2.0	166.0	
492.0			GRAY SHALE	38.0	168.0	

MAPID: 06390053000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 17 QUARTERS/FOOTAGES: 1' N line, 660' W line of NE NW
 QUADRANGLE: KINSMAN LONGITUDE: -88.559898 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.166425 DATE COLLECTED: 6 / 21 / 1971
 SURFACE ELEVATION (FT.): 666.0 LOGGED (FT.): 186.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 330 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
666.0	PLEISTOCENE		UNCONSOLIDATED	137.0	0.0	
529.0			DARK SHALE	2.0	137.0	GUMMY
527.0			BLACK SHALE	13.0	139.0	FOSSILS AND PYRITE
514.0			COAL	5.0	152.0	
509.0			SHALE/UNDERCLAY	3.0	157.0	
506.0			SILTSTONE	10.0	160.0	
496.0			SANDSTONE	16.0	170.0	

MAPID: 06390054000C VERSION: 1

PROJECT: NCRDS0

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 18 QUARTERS/FOOTAGES: 1' S line, 660' W line of SE SE
 QUADRANGLE: KINSMAN LONGITUDE: -88.569422 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.151956 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 115.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 204 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0	PLEISTOCENE		UNCONSOLIDATED	115.0	0.0	NO COAL?

MAPID: 06390055000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 18 QUARTERS/FOOTAGES: 1' N line, 1' E line of NW NW

QUADRANGLE: KINSMAN LONGITUDE: -88.581446 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.16636 DATE COLLECTED:

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 178.4 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 205 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0	PLEISTOCENE		UNCONSOLIDATED	116.4	0.0	
545.6			COAL	1.5	116.4	TOP ERODED
544.1			CLAYSTONE	18.5	117.9	
525.6			CLAYSTONE	20.0	136.4	
505.6			GRAY SANDSTONE	10.0	156.4	
495.6			COAL	1.9	166.4	
493.7			COAL W/ PYRITE	0.3	168.3	
493.4			COAL	1.8	168.6	
491.6			COAL WITH SHALE	1.1	170.4	
490.5			COAL	3.3	171.5	
487.2			PYRITE	0.2	174.8	
487.1			COAL	2.2	174.9	
484.9			UNKNOWN	1.3	177.1	

MAPID: 06390056000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 18 QUARTERS/FOOTAGES: 660' N line, 660' E line of NW NE

QUADRANGLE: KINSMAN LONGITUDE: -88.574251 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.164562 DATE COLLECTED: 4 / 30 / 1971

SURFACE ELEVATION (FT.): 668.0 LOGGED (FT.): 190.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 317 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
668.0	PLEISTOCENE		UNCONSOLIDATED	115.0	0.0	
553.0			SHALE	13.0	115.0	
540.0			LIMESTONE	10.0	128.0	
530.0			SHALE	8.0	138.0	
522.0			BLACK SHALE	15.0	146.0	
507.0			COAL	11.0	161.0	
496.0			UNDERCLAY	2.0	172.0	
494.0			SHALE	2.0	174.0	
492.0			BLACK SHALE	2.0	176.0	
490.0			GRAY SHALE	3.0	178.0	
487.0			SANDSTONE	8.0	181.0	
479.0			GRAY SHALE	1.0	189.0	

MAPID: 06390057000C VERSION: 1

PROJECT:

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 18 QUARTERS/FOOTAGES: 660' S line, 660' E line of NE NE
 QUADRANGLE: KINSMAN LONGITUDE: -88.56944 GEOLOGIST:
 CONFIDENTIAL: N LATITUDE: 41.164604 DATE COLLECTED: 4 / 30 / 1971
 SURFACE ELEVATION (FT.): 670.0 LOGGED (FT.): 190.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 318 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.0	PLEISTOCENE		UNCONSOLIDATED	127.0	0.0	
543.0			COAL	2.0	127.0	TOP ERODED
541.0			SHALE	24.0	129.0	
517.0			BLACK SHALE	15.0	153.0	
502.0			COAL	7.0	168.0	
495.0			UNDERCLAY	4.0	175.0	
491.0			SHALE	11.0	179.0	

MAPID: 06390058000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 18 QUARTERS/FOOTAGES: 1' N line, 1' W line of NW SW NE
 QUADRANGLE: KINSMAN LONGITUDE: -88.576658 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.162754 DATE COLLECTED: 5 / 2 / 1971
 SURFACE ELEVATION (FT.): 663.0 LOGGED (FT.): 218.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 319 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.0	PLEISTOCENE		UNCONSOLIDATED	14.0	0.0	
649.0	PLEISTOCENE		CLAY & SHALE	5.0	14.0	
644.0			GRAVEL	3.0	19.0	
641.0			GRAY SHALE	13.0	22.0	GUMMY
628.0			UNKNOWN	2.0	35.0	DRILLER REPORTS GRAVEL
626.0			SILTY SHALE	68.5	37.0	
557.5			UNKNOWN	1.0	105.5	DRILLER REPORTS GRAVEL
556.5			GRAY SHALE	9.5	106.5	GUMMY
547.0			SILTY SHALE	22.0	116.0	
525.0			DARK SHALE	2.0	138.0	
523.0			COAL	4.5	140.0	
518.5			UNDERCLAY	16.0	144.5	
502.5			SANDSTONE	11.0	160.5	CALCAREOUS
491.5			SILTY SHALE	6.0	171.5	
485.5			DARK SHALE	22.0	177.5	FOSSILS
463.5			COAL	9.5	199.5	
454.0			UNDERCLAY	3.5	209.0	
450.5			SILTSTONE	6.0	212.5	

MAPID: 06390059000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 18 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW NE NE

QUADRANGLE: KINSMAN LONGITUDE: -88.571837 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.162778 DATE COLLECTED: 5 / 1 / 1971

SURFACE ELEVATION (FT.): 671.0 LOGGED (FT.): 177.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 320 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
671.0	PLEISTOCENE		SANDY CLAY	14.0	0.0	
657.0			GRAY SHALE	15.0	14.0	
642.0			DARK SHALE	13.0	29.0	GUMMY
629.0			SILTY SHALE	5.0	42.0	HARD
624.0			GRAY SHALE	28.0	47.0	
596.0			DARK SHALE	5.0	75.0	GUMMY
591.0			SILTY SHALE	25.0	80.0	
566.0			SHALE	12.0	105.0	WITH GRAVEL TRACES
554.0			SILTY SHALE	1.0	117.0	
553.0			COAL	4.0	118.0	
549.0			UNDERCLAY	3.0	122.0	
546.0			SILTY SHALE	25.0	125.0	MICACEOUS
521.0			BLACK SHALE	4.0	150.0	FOSSILS
517.0			COAL	5.0	154.0	
512.0			UNDERCLAY	4.0	159.0	
508.0			SILTY SHALE	14.0	163.0	

MAPID: 06390060000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 18 QUARTERS/FOOTAGES: 1' S line, 1' E line of SE NE NE

QUADRANGLE: KINSMAN LONGITUDE: -88.567023 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.162796 DATE COLLECTED: 5 / 5 / 1971

SURFACE ELEVATION (FT.): 664.0 LOGGED (FT.): 224.5 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 321 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.0	PLEISTOCENE		UNCONSOLIDATED	121.0	0.0	
543.0			GRAY SHALE	1.0	121.0	
542.0			COAL	4.0	122.0	
538.0			UNDERCLAY	11.0	126.0	
527.0			SILTY SHALE	17.0	137.0	
510.0			BLACK SHALE	17.0	154.0	FOSSILIFEROUS, PYRITIC
493.0			COAL	8.5	171.0	
484.5			UNDERCLAY	4.5	179.5	
480.0			SANDSTONE	21.5	184.0	
458.5			SHALE & SILTSTONE	19.0	205.5	

MAPID: 06390061000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 18 QUARTERS/FOOTAGES: 660' N line, 660' W line of SW NE

QUADRANGLE: KINSMAN LONGITUDE: -88.574263 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.160946 DATE COLLECTED: 5 / 4 / 1971

SURFACE ELEVATION (FT.): 659.0 LOGGED (FT.): 195.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 322 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.0	PLEISTOCENE		SANDY CLAY	13.0	0.0	
646.0			GRAY SHALE	53.0	13.0	GUMMY
593.0			DARK SHALE	9.0	66.0	
584.0			SILTY SHALE	25.0	75.0	
559.0			GRAY SHALE	29.0	100.0	
530.0			GRAY SHALE	2.0	129.0	
528.0			COAL	1.5	131.0	
526.5			UNDERCLAY	2.0	132.5	
524.5			SILTY SHALE	17.5	134.5	
507.0			BLACK SHALE	5.0	152.0	FOSSILIFEROUS, PYRITIC
502.0			COAL	7.0	157.0	
495.0			UNDERCLAY	4.5	164.0	
490.5			SANDSTONE	26.5	168.5	SHALY

MAPID: 06390062000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 18 QUARTERS/FOOTAGES: 660' N line, 660' E line of SE NE

QUADRANGLE: KINSMAN LONGITUDE: -88.569417 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.160964 DATE COLLECTED: 5 / 2 / 1971

SURFACE ELEVATION (FT.): 664.0 LOGGED (FT.): 237.5 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 323 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.0	PLEISTOCENE		UNCONSOLIDATED	127.5	0.0	
536.5			SHALE	3.5	127.5	
533.0			COAL	2.5	131.0	
530.5			UNDERCLAY	2.0	133.5	
528.5			SILTY SHALE	33.0	135.5	
495.5			COAL	1.0	168.5	
494.5			GRAY SHALE	10.0	169.5	GUMMY
484.5			DARK SHALE	15.0	179.5	
469.5			SILTY SHALE	9.5	194.5	
460.0			SILTY SHALE	8.5	204.0	
451.5			GRAY SHALE	25.0	212.5	

MAPID: 06390063000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 18 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SW NE
 QUADRANGLE: KINSMAN LONGITUDE: -88.576674 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.159139 DATE COLLECTED: 5 / 3 / 1971
 SURFACE ELEVATION (FT.): 664.0 LOGGED (FT.): 224.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 324 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
664.0	PLEISTOCENE		SANDY CLAY	14.0	0.0	
650.0			SILTY SHALE	89.0	14.0	
561.0			SHALE	6.0	103.0	WITH GRAVEL
555.0			SILTY SHALE	21.0	109.0	
534.0			CALCAREOUS SHALE	4.0	130.0	
530.0			LIMESTONE	16.0	134.0	
514.0			BLACK SHALE	13.5	150.0	FOSSILS, PYRITE
500.5			COAL	8.5	163.5	
492.0			UNDERCLAY	5.0	172.0	
487.0			SANDSTONE	19.0	177.0	
468.0			SILTY SHALE	18.0	196.0	
450.0			BLACK SHALE	3.0	214.0	
447.0			SILTY SHALE	7.0	217.0	

MAPID: 06390064000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 18 QUARTERS/FOOTAGES: 1' S line, 1' E line of SE SW NE
 QUADRANGLE: KINSMAN LONGITUDE: -88.571842 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.159165 DATE COLLECTED: 5 / 5 / 1971
 SURFACE ELEVATION (FT.): 659.0 LOGGED (FT.): 224.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 325 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
659.0	PLEISTOCENE		SANDY CLAY	14.0	0.0	
645.0			GRAY SHALE	99.0	14.0	WITH CHERT
546.0			GRAY SHALE	6.0	113.0	WITH COAL TRACES
540.0			SILTY SHALE	4.0	119.0	
536.0			SHALE/UNDERCLAY	8.0	123.0	
528.0			SILTY SHALE	22.0	131.0	
506.0			GRAY SHALE	12.0	153.0	GUMMY
494.0			SHALE/UNDERCLAY	7.0	165.0	
487.0			SANDY LIMESTONE	12.0	172.0	
475.0			DARK SHALE	13.0	184.0	
462.0			LIMESTONE	9.0	197.0	
453.0			SILTSTONE	18.0	206.0	

MAPID: 06390065000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 18 QUARTERS/FOOTAGES: 1' S line, 1' E line of SE SE NE

QUADRANGLE: KINSMAN LONGITUDE: -88.566999 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.159188 DATE COLLECTED: 5 / 4 / 1971

SURFACE ELEVATION (FT.): 663.0 LOGGED (FT.): 224.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 327 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
663.0	PLEISTOCENE		UNCONSOLIDATED	115.0	0.0	
548.0			SHALE	9.0	115.0	
539.0			SILTY SHALE	6.0	124.0	
533.0			SILTY SHALE	53.0	130.0	MICACEOUS
480.0			LIMESTONE	5.0	183.0	
475.0			BLACK SHALE	8.0	188.0	FOSSILIFEROUS
467.0			GRAY SHALE	5.0	196.0	SOFT
462.0			SHALE & SILTSTONE	23.0	201.0	

MAPID: 06390066000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 18 QUARTERS/FOOTAGES: 1' S line, 660' W line of SW NE

QUADRANGLE: KINSMAN LONGITUDE: -88.574269 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.159151 DATE COLLECTED: 5 / 6 / 1971

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 190.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 328 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0	PLEISTOCENE		SANDY CLAY	126.0	0.0	
536.0			GRAY SHALE	9.0	126.0	
527.0			SILTY SHALE	6.0	135.0	
521.0			BLACK SHALE	10.0	141.0	FOSSILS AND PYRITE
511.0			SHALE/COAL	2.0	151.0	
509.0			SHALE/UNDERCLAY	7.0	153.0	GUMMY
502.0			SILTSTONE	30.0	160.0	

MAPID: 06390067000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 6E SECTION: 18 QUARTERS/FOOTAGES: 660' N line, 1' E line of SE NE

QUADRANGLE: KINSMAN LONGITUDE: -88.567012 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.160973 DATE COLLECTED: 5 / 11 / 1971

SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 183.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 329 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0	PLEISTOCENE		UNCONSOLIDATED	3.0	0.0	
662.0	PLEISTOCENE		SAND & GRAVEL	16.0	3.0	
646.0			GRAY SHALE	85.0	19.0	
561.0			LIMESTONE	2.0	104.0	
559.0			SHALE	15.0	106.0	
544.0			COAL	1.0	121.0	
543.0			SHALE	10.0	122.0	GREEN
533.0			GRAY SHALE	51.0	132.0	

MAPID: 06300700000C VERSION: 1

PROJECT: NCRDS87

COUNTY: GRUNDY TWP/RNG: 31N 7E SECTION: 2 QUARTERS/FOOTAGES: NW NE NE

QUADRANGLE: MAZON LONGITUDE: -88.382428 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 41.197533 DATE COLLECTED:

SURFACE ELEVATION (FT.): 590.0 LOGGED (FT.): 211.0 LOG TYPE: Drillers Log

SOURCE: STEWART (FARM) WELL TYPE: Coal Test

COMMENT: LOCATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
590.0			UNCONSOLIDATED	60.0	0.0	
530.0	CARBONDALE		SHALE	55.0	60.0	
475.0	CARBONDALE	EXCELLO	BLACK SHALE	11.0	115.0	
464.0	CARBONDALE	HOUCHIN CREEK	COAL	0.3	126.0	
463.7			UNDERCLAY	3.7	126.3	
460.0			SHALE	6.0	130.0	
454.0			UNCLASSIFIED	60.0	136.0	
394.0			COAL	3.0	196.0	
391.0			UNDERCLAY	2.0	199.0	
389.0	CARBONDALE		UNCLASSIFIED	6.0	201.0	
383.0	CARBONDALE	COLCHESTER	COAL	3.0	207.0	
380.0	SPOON		UNDERCLAY	1.0	210.0	

MAPID: 06300700000C VERSION: 2

PROJECT: RJJ-NCILL

COUNTY: GRUNDY

TWP/RNG: 31N 7E

SECTION: 2

QUARTERS/FOOTAGES: NW NE NE

QUADRANGLE: MAZON

LONGITUDE: -88.382428

GEOLOGIST: JACOBSON,R

CONFIDENTIAL: N

LATITUDE: 41.197533

DATE COLLECTED:

SURFACE ELEVATION (FT.): 588.0

LOGGED (FT.): 210.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Coal Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
462.0	CARBONDALE	HOUCHIN CREEK	COAL	0.3	126.0	
461.7	CARBONDALE		UNCLASSIFIED	69.7	126.3	
392.0	CARBONDALE	LOWELL	COAL	3.6	196.0	
388.4	CARBONDALE		UNCLASSIFIED	7.4	199.6	
381.0	CARBONDALE	COLCHESTER	COAL	3.0	207.0	

MAPID: 06390068000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY

TWP/RNG: 31N 7E

SECTION: 13

QUARTERS/FOOTAGES: 1' S line, 1' W line of SW NW

QUADRANGLE: MAZON

LONGITUDE: -88.377633

GEOLOGIST: STRAAYER

CONFIDENTIAL: N

LATITUDE: 41.16223

DATE COLLECTED: 5 / 6 / 1970

SURFACE ELEVATION (FT.): 635.0

LOGGED (FT.): 176.2

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 201

WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.0	PLEISTOCENE		CLAY	109.3	0.0	WITH BOULDERS
525.7			CLAYSTONE	6.9	109.3	
518.8			CLAYSTONE	10.8	116.2	FRIABLE
508.1			CLAYSTONE	2.0	126.9	AND COAL WISPS
506.1			GRAY SANDSTONE	6.2	128.9	
499.9			SANDSTONE/SHALE	0.2	135.1	
499.7			GRAY SANDSTONE	0.9	135.3	
498.8			SANDSTONE/COAL	1.0	136.2	
497.8			GRAY SANDSTONE	15.3	137.2	
482.5			SANDSTONE/COAL	0.8	152.5	
481.7			GRAY SANDSTONE	2.8	153.3	
478.8			CLAYSTONE	14.8	156.2	
464.0			GRAY SANDSTONE	0.6	171.0	SOFT
463.4			CLAYSTONE	4.6	171.6	

MAPID: 06301390000C VERSION: 1

PROJECT: RJJ-NCILL

COUNTY: GRUNDY

TWP/RNG: 31N 7E

SECTION: 18

QUARTERS/FOOTAGES: NE NW NE

QUADRANGLE: MAZON

LONGITUDE: -88.460082

GEOLOGIST: JACOBSON,R

CONFIDENTIAL: N

LATITUDE: 41.166516

DATE COLLECTED:

SURFACE ELEVATION (FT.): 623.0

LOGGED (FT.): 215.1

LOG TYPE: Survey Core Study

SOURCE:

WELL TYPE: Coal Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
510.0	CARBONDALE	DANVILLE	COAL	0.4	113.0
509.6	CARBONDALE		UNCLASSIFIED	5.6	113.4
504.0	CARBONDALE	HERRIN	COAL	3.7	119.0
500.3	CARBONDALE		UNCLASSIFIED	91.3	122.7
409.0	CARBONDALE	COLCHESTER	COAL	1.1	214.0

MAPID: 06390069000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY

TWP/RNG: 31N 7E

SECTION: 21

QUARTERS/FOOTAGES: 660' N line, 660' E line of NW SE

QUADRANGLE: MAZON

LONGITUDE: -88.422168

GEOLOGIST: PHILLIPS

CONFIDENTIAL: N

LATITUDE: 41.144721

DATE COLLECTED: 6 / 27 / 1971

SURFACE ELEVATION (FT.): 620.0

LOGGED (FT.): 226.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE RB75

WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
620.0	PLEISTOCENE		CLAY	14.0	0.0
606.0			SHALE	57.0	14.0
549.0			CONGLOMERATE	1.0	71.0
548.0			SHALE	10.0	72.0
538.0			CONGLOMERATE	2.0	82.0
536.0			SHALE WITH LIMESTONE	1.0	84.0
535.0			SHALE	15.0	85.0
520.0			SANDSTONE	11.0	100.0 SOFT
509.0			SHALE & SANDSTONE	7.0	111.0
502.0			SILTY SHALE	5.0	118.0
497.0			SANDY DARK SHALE	2.0	123.0
495.0			SANDSTONE	7.0	125.0 SOFT
488.0			CALCAREOUS SANDSTONE	2.0	132.0 SOFT
486.0			SHALE & SANDSTONE	12.0	134.0
474.0			SILTY SHALE	9.0	146.0
465.0			SANDSTONE	10.0	155.0 SOFT
455.0			SHALE & SANDSTONE	36.0	165.0
419.0			SHALE & SANDSTONE	25.0	201.0

MAPID: 06301470000C VERSION: 1

PROJECT: RJJ-NCILL

COUNTY: GRUNDY

TWP/RNG: 31N 7E

SECTION: 26

QUARTERS/FOOTAGES: SW NW NW

QUADRANGLE: MAZON

LONGITUDE: -88.394319

GEOLOGIST: JACOBSON,R

CONFIDENTIAL: N

LATITUDE: 41.13722

DATE COLLECTED:

SURFACE ELEVATION (FT.): 609.0

LOGGED (FT.): 229.5

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
382.0	CARBONDALE	COLCHESTER	COAL	2.5	227.0

MAPID: 06300890000C VERSION: 1

PROJECT: NCRDS87

COUNTY: GRUNDY

TWP/RNG: 31N 8E

SECTION: 1

QUARTERS/FOOTAGES: NW NE SE NE

QUADRANGLE: ESSEX

LONGITUDE: -88.245366

GEOLOGIST: WEIBEL

CONFIDENTIAL: N

LATITUDE: 41.19756

DATE COLLECTED: 0 / 0 / 1899

SURFACE ELEVATION (FT.): 603.0

LOGGED (FT.): 183.0

LOG TYPE: Drillers Log

SOURCE: CARDIFF COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
603.0			UNCONSOLIDATED	63.0	0.0
540.0	CARBONDALE		LIMESTONE	12.7	63.0
527.3	CARBONDALE		SANDSTONE	2.3	75.7
525.0	CARBONDALE		UNCLASSIFIED	8.0	78.0
517.0	CARBONDALE		LIMESTONE	0.4	86.0
516.6	CARBONDALE		UNCLASSIFIED	2.1	86.4
514.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.3	88.5
511.2	CARBONDALE	COLCHESTER	COAL	4.8	91.8
506.4	SPOON		UNDERCLAY	7.8	96.6
498.6	SPOON		LIMESTONE	4.0	104.4
494.6	SPOON		SANDSTONE	27.6	108.4
467.0	SPOON		UNCLASSIFIED	21.7	136.0
445.3	SPOON		COAL	2.1	157.7
443.2	SPOON		UNDERCLAY	7.0	159.8
436.2	SPOON		UNCLASSIFIED	6.7	166.8
429.6	SPOON		UNCLASSIFIED	1.3	173.4
428.2	SPOON		COAL	0.3	174.8
428.0	SPOON		UNDERCLAY	8.0	175.0

MAPID: 06300890000C **VERSION:** 2 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 31N 8E **SECTION:** 1 **QUARTERS/FOOTAGES:** NW NE SE NE
QUADRANGLE: ESSEX **LONGITUDE:** -88.245366 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.19756 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 577.0 **LOGGED (FT.):** 95.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
485.0	CARBONDALE	COLCHESTER	COAL	3.9	92.0	

MAPID: 06300698000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 31N 8E **SECTION:** 4 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: GARDNER **LONGITUDE:** -88.302209 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.186997 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 163.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
425.0	CARBONDALE	COLCHESTER	COAL	3.0	160.0	

MAPID: 06300696000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 31N 8E **SECTION:** 9 **QUARTERS/FOOTAGES:** NE NE NE
QUADRANGLE: GARDNER **LONGITUDE:** -88.302164 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.185193 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 589.0 **LOGGED (FT.):** 168.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
424.0	CARBONDALE	COLCHESTER	COAL	3.0	165.0	

MAPID: 06300891000C VERSION: 1

PROJECT: RJJ-NCILL

COUNTY: GRUNDY TWP/RNG: 31N 8E SECTION: 11 QUARTERS/FOOTAGES: NE SW SW
 QUADRANGLE: GARDNER LONGITUDE: -88.278 GEOLOGIST: JACOBSON,R
 CONFIDENTIAL: N LATITUDE: 41.174665 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 586.0 LOGGED (FT.): 175.0 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
496.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	90.0
493.0	CARBONDALE		UNCLASSIFIED	82.0	93.0
411.0	CARBONDALE	COLCHESTER	COAL	-	175.0

MAPID: 06300695000C VERSION: 1

PROJECT: RJJ-NCILL

COUNTY: GRUNDY TWP/RNG: 31N 8E SECTION: 23 QUARTERS/FOOTAGES: SE NE NW
 QUADRANGLE: GARDNER LONGITUDE: -88.272287 GEOLOGIST: JACOBSON,R
 CONFIDENTIAL: N LATITUDE: 41.154848 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 592.0 LOGGED (FT.): 198.1 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Coal Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
512.0	CARBONDALE	SPRINGFIELD	COAL	-	80.0
512.0	CARBONDALE		UNCLASSIFIED	26.0	80.0
486.0	CARBONDALE	HOUCHIN CREEK	COAL	3.7	106.0
482.3	CARBONDALE		UNCLASSIFIED	85.3	109.7
397.0	CARBONDALE	COLCHESTER	COAL	3.1	195.0

MAPID: 06300685000C VERSION: 1

PROJECT: RJJ-NCILL

COUNTY: GRUNDY TWP/RNG: 31N 8E SECTION: 25 QUARTERS/FOOTAGES: SE SW SE
 QUADRANGLE: ESSEX LONGITUDE: -88.247398 GEOLOGIST: JACOBSON,R
 CONFIDENTIAL: N LATITUDE: 41.129694 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 595.0 LOGGED (FT.): 166.0 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Coal Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
530.0	CARBONDALE	SPRINGFIELD	COAL	0.1	65.0
529.9	CARBONDALE		UNCLASSIFIED	42.9	65.1
487.0	CARBONDALE	HOUCHIN CREEK	COAL	3.7	108.0
483.3	CARBONDALE		UNCLASSIFIED	52.3	111.7
431.0	CARBONDALE	COLCHESTER	COAL	2.0	164.0

MAPID: 06300686000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 31N 8E **SECTION:** 25 **QUARTERS/FOOTAGES:** NE SW SE
QUADRANGLE: ESSEX **LONGITUDE:** -88.247456 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.131512 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 155.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
537.0	CARBONDALE	SPRINGFIELD	COAL	-	58.0
537.0	CARBONDALE		UNCLASSIFIED	45.0	58.0
492.0	CARBONDALE	HOUCHIN CREEK	COAL	3.7	103.0
488.3	CARBONDALE		UNCLASSIFIED	46.3	106.7
442.0	CARBONDALE	COLCHESTER	COAL	2.0	153.0

MAPID: 06300684000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 31N 8E **SECTION:** 26 **QUARTERS/FOOTAGES:**
QUADRANGLE: GARDNER **LONGITUDE:** -88.270474 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.13565 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 162.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
498.0	CARBONDALE	HOUCHIN CREEK	COAL	3.1	97.0
494.9	CARBONDALE		UNCLASSIFIED	59.9	100.1
435.0	CARBONDALE	COLCHESTER	COAL	2.9	160.0

MAPID: 06390018000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 8E SECTION: 31 QUARTERS/FOOTAGES: 1' S line, 660' E line of SW SE NW SE

QUADRANGLE: CAMPUS LONGITUDE: -88.345576 GEOLOGIST: PHILLIPS

CONFIDENTIAL: N LATITUDE: 41.115687 DATE COLLECTED: 6 / 26 / 1971

SURFACE ELEVATION (FT.): 610.0 LOGGED (FT.): 160.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE RB74 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.0	PLEISTOCENE		CLAY	15.0	0.0	
595.0			SHALE	61.0	15.0	
534.0			SHALE	3.0	76.0	GRAVEL
531.0			SILTY SHALE	2.0	79.0	
529.0			SHALE	1.0	81.0	GRAVEL
528.0			SILTY SHALE	5.0	82.0	
523.0			SHALE	10.0	87.0	GRAVEL
513.0			SHALE	9.0	97.0	
504.0			UNKNOWN	14.0	106.0	DRILLER REPORTS LOOSE SAND AND GRAVEL
490.0			SANDY SHALE	23.0	120.0	
467.0			SANDSTONE	2.0	143.0	VERY SOFT
465.0			SHALE	5.0	145.0	
460.0			SILTY SHALE	2.0	150.0	
458.0			SANDY SHALE	2.0	152.0	
456.0			SILTY SHALE	6.0	154.0	

MAPID: 06390070000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 8E SECTION: 34 QUARTERS/FOOTAGES: 1' N line, 1' W line of NW SE SW SE

QUADRANGLE: CAMPUS LONGITUDE: -88.286581 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.115296 DATE COLLECTED: 6 / 5 / 1971

SURFACE ELEVATION (FT.): 606.0 LOGGED (FT.): 146.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE RB60 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
606.0	PLEISTOCENE		CLAY	14.0	0.0
592.0			SHALE	28.0	14.0
564.0			SILTY SHALE	16.0	42.0
548.0			LIMESTONE	0.5	58.0
547.5			SHALE	2.5	58.5
545.0			ROCK	1.5	61.0
543.5			SILTY SHALE	14.5	62.5
529.0			SHALE & SANDSTONE	9.0	77.0
520.0			SILTY SHALE	1.0	86.0
519.0			BLACK SHALE	2.5	87.0
516.5			COAL	0.5	89.5
516.0			SHALE	5.0	90.0
511.0			LIMESTONE	1.0	95.0
510.0			SHALE	5.0	96.0
505.0			BLACK SHALE	2.0	101.0
503.0			GRAY SHALE	2.0	103.0
501.0	CARBONDALE	HERRIN	COAL	4.0	105.0
497.0	CARBONDALE		UNDERCLAY	8.0	109.0
489.0	CARBONDALE		LIMESTONE	1.0	117.0
488.0	CARBONDALE		SANDSTONE/SHALE	22.0	118.0
466.0	CARBONDALE		SHALE	6.0	140.0

MAPID: 06390071000C VERSION: 1

PROJECT: NCRDS021

COUNTY: GRUNDY TWP/RNG: 31N 8E SECTION: 34 QUARTERS/FOOTAGES: 1' S line, 1' E line of SE NW NE SE

QUADRANGLE: CAMPUS LONGITUDE: -88.281946 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.119019 DATE COLLECTED: 6 / 6 / 1971

SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 126.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE RB61 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0	PLEISTOCENE		CLAY	14.0	0.0	
586.0			SHALE	46.0	14.0	
540.0			CHERT	1.0	60.0	
539.0			SHALE	19.0	61.0	
520.0			BLACK SHALE	2.0	80.0	
518.0			GRAY SHALE	1.0	82.0	LIMY
517.0			SHALE	4.0	83.0	
513.0			SILTY SHALE	5.0	87.0	
508.0			SHALE WITH LIMESTONE	5.0	92.0	
503.0			SHALE	2.0	97.0	
501.0			DARK SHALE	1.0	99.0	
500.0			UNKNOWN	10.0	100.0	CORE #1
490.0			UNDERCLAY	2.0	110.0	
488.0			LIMESTONE	1.0	112.0	
487.0			SANDSTONE/SHALE	13.0	113.0	

MAPID: 06390072000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 8E SECTION: 34 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW NW SW
 QUADRANGLE: CAMPUS LONGITUDE: -88.29875 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.116816 DATE COLLECTED: 6 / 13 / 1971
 SURFACE ELEVATION (FT.): 605.0 LOGGED (FT.): 146.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE RB67 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
605.0	PLEISTOCENE		CLAY	14.0	0.0
591.0			SHALE	64.0	14.0
527.0			SILTY SHALE	5.0	78.0
522.0			SHALE/COAL	2.0	83.0
520.0			SILTY SHALE	4.0	85.0
516.0			LIMESTONE	1.0	89.0
515.0			SHALE & SANDSTONE	13.0	90.0
502.0			LIMESTONE	1.0	103.0
501.0			GRAY SHALE	2.0	104.0
499.0			BLACK SHALE	2.0	106.0
497.0			COAL	3.0	108.0
494.0			UNDERCLAY	5.0	111.0
489.0			SILTY SHALE	7.0	116.0
482.0			SHALE & SANDSTONE	2.0	123.0
480.0			LIMESTONE	1.0	125.0
479.0			SANDSTONE	4.0	126.0
475.0			SHALE & SANDSTONE	16.0	130.0

MAPID: 06300683000C VERSION: 1

PROJECT: RJJ-NCILL

COUNTY: GRUNDY TWP/RNG: 31N 8E SECTION: 35 QUARTERS/FOOTAGES: NE SE NW
 QUADRANGLE: CAMPUS LONGITUDE: -88.27132 GEOLOGIST: JACOBSON,R
 CONFIDENTIAL: N LATITUDE: 41.123809 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 605.0 LOGGED (FT.): 201.0 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Coal Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
512.0	CARBONDALE	SPRINGFIELD	COAL	-	93.0
512.0	CARBONDALE		UNCLASSIFIED	30.0	93.0
482.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	123.0
481.0	CARBONDALE		UNCLASSIFIED	74.0	124.0
407.0	CARBONDALE	COLCHESTER	COAL	3.0	198.0

MAPID: 06300682000C VERSION: 1

PROJECT: RJJ-NCILL

COUNTY: GRUNDY TWP/RNG: 31N 8E SECTION: 36 QUARTERS/FOOTAGES: NW SW NE

QUADRANGLE: BUCKINGHAM LONGITUDE: -88.249602 GEOLOGIST: JACOBSON,R

CONFIDENTIAL: N LATITUDE: 41.124222 DATE COLLECTED:

SURFACE ELEVATION (FT.): 605.0 LOGGED (FT.): 168.5 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Coal Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
541.0	CARBONDALE	SPRINGFIELD	COAL	-	64.0
541.0	CARBONDALE		UNCLASSIFIED	36.0	64.0
505.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	100.0
502.0	CARBONDALE		UNCLASSIFIED	63.0	103.0
439.0	CARBONDALE	COLCHESTER	COAL	2.5	166.0

MAPID: 06302058000C VERSION: 1

PROJECT: NCRDS87

COUNTY: GRUNDY TWP/RNG: 31N 8E SECTION: 36 QUARTERS/FOOTAGES: NW NE SE

QUADRANGLE: BUCKINGHAM LONGITUDE: -88.24466 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 41.120632 DATE COLLECTED: 5 / 19 / 1971

SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 191.8 LOG TYPE: Survey Sample Study

SOURCE: FIELD MUSEUM OF NATURAL HISTORY WELL TYPE: Diamond Drill

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
600.0			UNCONSOLIDATED	64.1	0.0
535.9	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	64.1
534.9	CARBONDALE		SANDSTONE	3.8	65.1
531.2	CARBONDALE	SPRINGFIELD	COAL	1.0	68.8
530.1	CARBONDALE		UNDERCLAY	1.1	69.9
529.1	CARBONDALE		SHALE	1.9	70.9
527.2	CARBONDALE		SILTSTONE	13.6	72.8
513.6	CARBONDALE		SHALE	12.4	86.4
501.2	CARBONDALE		LIMESTONE	1.0	98.8
500.2	CARBONDALE		SHALE	3.3	99.8
496.8	CARBONDALE	EXCELLO	BLACK SHALE	6.8	103.2
490.0	CARBONDALE	HOUCHIN CREEK	COAL	4.3	110.0
485.7	CARBONDALE		SILTSTONE	0.6	114.3
485.1	CARBONDALE		CLAYSTONE	3.8	114.9
481.3	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.7	118.7
480.6	CARBONDALE	FRANCIS CREEK	SHALE	49.0	119.4
431.6	CARBONDALE	FRANCIS CREEK	CONGLOMERATE	0.4	168.4
431.2	CARBONDALE	COLCHESTER	COAL	3.2	168.8
428.0	SPOON		CLAYSTONE	3.0	172.0
425.0	SPOON		COAL	0.7	175.0
424.3	SPOON		CLAYSTONE	4.3	175.7
420.0	SPOON		LIMESTONE	3.0	180.0
417.0	SPOON		SHALE	1.1	183.0
415.9	SPOON		COAL	0.5	184.1
415.4	SPOON		LIMESTONE	0.3	184.6
415.1	SPOON		CLAYSTONE	0.7	184.9
414.4	SPOON		BLACK SHALE	0.1	185.6
414.3	SPOON		CLAYSTONE	1.3	185.7
413.0	SPOON		SANDSTONE	4.8	187.0

MAPID: 06302058000C VERSION: 2

PROJECT: RJJ-NCILL

COUNTY: GRUNDY TWP/RNG: 31N 8E SECTION: 36 QUARTERS/FOOTAGES: NW NE SE

QUADRANGLE: BUCKINGHAM LONGITUDE: -88.24466 GEOLOGIST: JACOBSON,R

CONFIDENTIAL: N LATITUDE: 41.120632 DATE COLLECTED:

SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 172.3 LOG TYPE: Survey Core Study

SOURCE: WELL TYPE: Coal Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
531.0	CARBONDALE	SPRINGFIELD	COAL	1.0	69.0
530.0	CARBONDALE		UNCLASSIFIED	40.0	70.0
490.0	CARBONDALE	HOUCHIN CREEK	COAL	4.2	110.0
485.8	CARBONDALE		UNCLASSIFIED	54.8	114.2
431.0	CARBONDALE	COLCHESTER	COAL	3.3	169.0

MAPID: 06390073000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 31N 8E SECTION: 36 QUARTERS/FOOTAGES: 1' N line, 1' W line of NW NW NE NE

QUADRANGLE: ESSEX

LONGITUDE: -88.246171

GEOLOGIST: PHILLIPS

CONFIDENTIAL: N

LATITUDE: 41.128796

DATE COLLECTED: 6 / 18 / 1971

SURFACE ELEVATION (FT.): 598.0

LOGGED (FT.): 206.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE RB72

WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
598.0	PLEISTOCENE		CLAY	14.0	0.0	
584.0			SHALE	21.0	14.0	
563.0			CONGLOMERATE	2.0	35.0	
561.0			SHALE	17.0	37.0	
544.0			CALCAREOUS SHALE	1.0	54.0	
543.0			SHALE	2.0	55.0	GRAVELLY
541.0			LIMESTONE	1.0	57.0	
540.0			SHALE	5.0	58.0	
535.0			SILTY SHALE	3.0	63.0	
532.0			GRAY SHALE	8.0	66.0	
524.0			CALCAREOUS BLACK SHALE	1.0	74.0	
523.0			SANDY LIMESTONE	2.0	75.0	
521.0			BLACK SHALE	1.0	77.0	
520.0			COAL	1.0	78.0	
519.0			SHALE	6.0	79.0	
513.0			LIMESTONE	1.0	85.0	
512.0			SANDY SHALE	1.0	86.0	
511.0			SHALE WITH LIMESTONE	1.0	87.0	
510.0			LIMESTONE	5.0	88.0	
505.0			SILTY SHALE	7.0	93.0	
498.0			SHALE WITH LIMESTONE	1.0	100.0	
497.0			GRAY SHALE	10.0	101.0	
487.0			DARK SHALE	7.0	111.0	
480.0			LIMESTONE	1.0	118.0	
479.0			DARK SHALE	3.0	119.0	
476.0			BLACK SHALE	12.0	122.0	CORED
464.0			SHALE	2.0	134.0	
462.0			SILTY SHALE	4.0	136.0	
458.0			COAL	1.0	140.0	
457.0			BLACK SHALE	2.0	141.0	
455.0			GRAY SHALE	1.0	143.0	
454.0			COAL	1.0	144.0	
453.0			SILTY SHALE	15.0	145.0	
438.0			SANDY SHALE	6.0	160.0	
432.0			SANDSTONE	2.0	166.0	SOFT
430.0			SANDY SHALE	1.0	168.0	
429.0			COAL	3.0	169.0	
426.0			SHALE WITH LIMESTONE	4.0	172.0	

422.0	CARBONDALE	COLCHESTER	COAL	1.0	176.0
421.0			SHALE WITH LIMESTONE	1.0	177.0
420.0	CARBONDALE	COLCHESTER	COAL	1.0	178.0
419.0			SHALE	2.5	179.0
416.5			LIMESTONE	3.5	181.5
413.0			SHALE	5.0	185.0
408.0			SANDSTONE	1.0	190.0 SOFT
407.0			SHALE	15.0	191.0

MAPID: 06301552000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 13 **QUARTERS/FOOTAGES:** SW SE SE
QUADRANGLE: MAZON **LONGITUDE:** -88.477755 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.240927 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 610.0 **LOGGED (FT.):** 71.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN COMMENT
544.0	CARBONDALE	HERRIN	COAL	5.0	66.0

MAPID: 06300086000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 14 **QUARTERS/FOOTAGES:** NW SW SW
QUADRANGLE: KINSMAN **LONGITUDE:** -88.511106 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.241881 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 624.0 **LOGGED (FT.):** 85.4 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN COMMENT
545.0	CARBONDALE	HERRIN	COAL	6.4	79.0

MAPID: 06300672000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 14 **QUARTERS/FOOTAGES:** NE SE SW SE
QUADRANGLE: MAZON **LONGITUDE:** -88.49854 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.240975 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 620.0 **LOGGED (FT.):** 80.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN COMMENT
543.0	CARBONDALE	HERRIN	COAL	3.9	77.0

MAPID: 06300673000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 14 **QUARTERS/FOOTAGES:** NW SE NW
QUADRANGLE: KINSMAN **LONGITUDE:** -88.506769 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.249212 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 622.0 **LOGGED (FT.):** 96.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
533.0	CARBONDALE	HERRIN	COAL	7.0	89.0	

MAPID: 06300674000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 14 **QUARTERS/FOOTAGES:** NE NW NE SW
QUADRANGLE: KINSMAN **LONGITUDE:** -88.505989 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.246092 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 626.0 **LOGGED (FT.):** 123.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
503.0	CARBONDALE	HERRIN	COAL	-	123.0	

MAPID: 06300676000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 14 **QUARTERS/FOOTAGES:** NW NW NW SW
QUADRANGLE: KINSMAN **LONGITUDE:** -88.511943 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.245928 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 631.0 **LOGGED (FT.):** 118.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
522.0	CARBONDALE	HERRIN	COAL	9.9	109.0	

MAPID: 06300679000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 14 **QUARTERS/FOOTAGES:** SE NE SE SW
QUADRANGLE: KINSMAN **LONGITUDE:** -88.503348 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.241696 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 618.0 **LOGGED (FT.):** 74.8 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
548.0	CARBONDALE	HERRIN	COAL	4.8	70.0	

MAPID: 06300680000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 14 **QUARTERS/FOOTAGES:** NE SW SW
QUADRANGLE: KINSMAN **LONGITUDE:** -88.508726 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.241961 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 622.0 **LOGGED (FT.):** 117.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
514.0	CARBONDALE	HERRIN	COAL	9.9	108.0

MAPID: 06370006000C **VERSION:** 1 **PROJECT:** NCRDS
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 16 **QUARTERS/FOOTAGES:** 2500' S line, 2000' E line
QUADRANGLE: KINSMAN **LONGITUDE:** -88.538993 **GEOLOGIST:** LOUCHIOS
CONFIDENTIAL: N **LATITUDE:** 41.245858 **DATE COLLECTED:** 0 / 0 / 1925
SURFACE ELEVATION (FT.): 645.0 **LOGGED (FT.):** 143.0 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL 670 **WELL TYPE:** Coal Test
COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
645.0			NO RECORD	89.0	0.0
556.0	CARBONDALE		SANDSTONE	36.0	89.0
520.0	CARBONDALE		SHALE	14.0	125.0
506.0	CARBONDALE		CLAYSTONE	2.2	139.0
503.8	CARBONDALE	SPRINGFIELD	COAL	0.1	141.2
503.7	CARBONDALE		CLAYSTONE	1.8	141.3

MAPID: 06301558000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 20 **QUARTERS/FOOTAGES:** SE NW SE
QUADRANGLE: KINSMAN **LONGITUDE:** -88.556113 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.228975 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 650.0 **LOGGED (FT.):** 230.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
498.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	152.0
495.0	CARBONDALE		UNCLASSIFIED	73.0	155.0
422.0	CARBONDALE	COLCHESTER	COAL	2.0	228.0

MAPID: 06370005000C VERSION: 1

PROJECT: NCRDS

COUNTY: GRUNDY TWP/RNG: 32N 6E SECTION: 20 QUARTERS/FOOTAGES: 1530' S line, 900' E line
 QUADRANGLE: KINSMAN LONGITUDE: -88.553334 GEOLOGIST: LOUCHIOS
 CONFIDENTIAL: N LATITUDE: 41.228666 DATE COLLECTED: 0 / 0 / 1947
 SURFACE ELEVATION (FT.): 653.0 LOGGED (FT.): 535.0 LOG TYPE: Drillers Log
 SOURCE: UTAH INTERNATIONAL 1558 WELL TYPE: Coal Test
 COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
653.0			NO RECORD	100.0	0.0
553.0	CARBONDALE		SANDSTONE	32.0	100.0
521.0	CARBONDALE		SHALE	20.0	132.0
501.0	CARBONDALE	SPRINGFIELD	COAL	3.0	152.0
498.0	CARBONDALE		SHALE	73.0	155.0
425.0	CARBONDALE	COLCHESTER	COAL	2.0	228.0
423.0	CARBONDALE		SHALE	22.0	230.0
401.0			LIMESTONE	221.0	252.0
180.0			SANDSTONE	62.0	473.0

MAPID: 06301430000C VERSION: 1

PROJECT: RJJ-NCILL

COUNTY: GRUNDY TWP/RNG: 32N 6E SECTION: 21 QUARTERS/FOOTAGES: SE SW SW
 QUADRANGLE: KINSMAN LONGITUDE: -88.546293 GEOLOGIST: JACOBSON,R
 CONFIDENTIAL: N LATITUDE: 41.225381 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 652.0 LOGGED (FT.): 261.0 LOG TYPE: Electric Log
 SOURCE: WELL TYPE: Oil and Gas Test
 COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
528.0	CARBONDALE	HERRIN	COAL	-	124.0
528.0	CARBONDALE		UNCLASSIFIED	62.0	124.0
466.0	CARBONDALE	SPRINGFIELD	COAL	-	186.0
466.0	CARBONDALE		UNCLASSIFIED	16.0	186.0
450.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	202.0
447.5	CARBONDALE		UNCLASSIFIED	53.5	204.5
394.0	CARBONDALE	COLCHESTER	COAL	3.0	258.0

MAPID: 06390074000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 32N 6E SECTION: 21 QUARTERS/FOOTAGES: 1' S line, 1' E line of SE SE SW

QUADRANGLE: KINSMAN LONGITUDE: -88.540201 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.224492 DATE COLLECTED:

SURFACE ELEVATION (FT.): 649.0 LOGGED (FT.): 237.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 240 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.0	PLEISTOCENE		UNCONSOLIDATED	96.0	0.0	
553.0			GRAY SANDSTONE	4.0	96.0	
549.0			SANDY SHALE	10.0	100.0	
539.0			GRAY SANDSTONE	18.5	110.0	
520.5			DARK SHALE	2.5	128.5	
518.0			GRAY SANDSTONE	3.0	131.0	
515.0			COAL	0.6	134.0	
514.4			UNDERCLAY	9.9	134.6	
504.5			BLACK SHALE	4.5	144.5	
500.0			CLAYSTONE	9.0	149.0	
491.0			SANDY SHALE	17.5	158.0	
473.5			GRAY SHALE	2.0	175.5	
471.5			SANDY SHALE	3.0	177.5	
468.5			GRAY SHALE	2.5	180.5	
466.0			SANDY SHALE	2.0	183.0	
464.0			GRAY SHALE	3.3	185.0	
460.7			SANDY SHALE	0.8	188.3	
460.0			SANDY SHALE	1.0	189.0	DARK GREY
459.0			SANDY SHALE	2.4	190.0	
456.6			GRAY SHALE	22.1	192.4	
434.5	CARBONDALE	COLCHESTER	COAL	2.5	214.5	
432.0			UNDERCLAY	0.2	217.0	
431.8	TRADEWATER		CLAYSTONE	3.8	217.2	
428.0	TRADEWATER		GRAY SHALE	1.3	221.0	
426.7	TRADEWATER		CLAYSTONE	1.2	222.3	
425.5	TRADEWATER		GRAY SANDSTONE	2.0	223.5	
423.5	TRADEWATER		CLAYSTONE	2.1	225.5	
421.4	TRADEWATER		GRAY SANDSTONE	0.4	227.6	
421.0	TRADEWATER		CLAYSTONE	1.0	228.0	GRAY
420.0	TRADEWATER		SANDY SHALE	1.0	229.0	
419.0	TRADEWATER		GRAY SANDSTONE	0.5	230.0	
418.5	TRADEWATER		CLAYSTONE	3.0	230.5	
415.5	TRADEWATER		SANDY SHALE	1.0	233.5	
414.5	TRADEWATER		GRAY SANDSTONE	2.0	234.5	
412.5	TRADEWATER		SANDY CLAYSTONE	0.5	236.5	

MAPID: 0630065000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** SW SE SW
QUADRANGLE: KINSMAN **LONGITUDE:** -88.505597 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.225653 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 626.0 **LOGGED (FT.):** 105.1 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
528.0	CARBONDALE	HERRIN	COAL	7.1	98.0	

MAPID: 06300655000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** NE NE NE SE
QUADRANGLE: MAZON **LONGITUDE:** -88.493338 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.231933 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 618.0 **LOGGED (FT.):** 81.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
542.0	CARBONDALE	HERRIN	COAL	5.0	76.0	

MAPID: 06300659000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** SW SE NW
QUADRANGLE: KINSMAN **LONGITUDE:** -88.505915 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.232961 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 620.0 **LOGGED (FT.):** 83.8 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
544.0	CARBONDALE	HERRIN	COAL	7.8	76.0	

MAPID: 06300662000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** NE NW NW
QUADRANGLE: KINSMAN **LONGITUDE:** -88.50853 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.238355 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 624.0 **LOGGED (FT.):** 102.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
529.0	CARBONDALE	HERRIN	COAL	7.9	95.0	

MAPID: 06300663000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: KINSMAN **LONGITUDE:** -88.510906 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.238267 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 616.0 **LOGGED (FT.):** 92.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
531.0	CARBONDALE	HERRIN	COAL	7.9	85.0	

MAPID: 06300664000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** SW NW NE
QUADRANGLE: KINSMAN **LONGITUDE:** -88.501312 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.236778 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 620.0 **LOGGED (FT.):** 94.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
533.0	CARBONDALE	HERRIN	COAL	7.5	87.0	

MAPID: 06300666000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** SW SW NE SE
QUADRANGLE: MAZON **LONGITUDE:** -88.496784 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.229063 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 620.0 **LOGGED (FT.):** 85.1 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
541.0	CARBONDALE	HERRIN	COAL	6.1	79.0	

MAPID: 06300667000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** SW NE SE
QUADRANGLE: MAZON **LONGITUDE:** -88.496211 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.229538 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 621.0 **LOGGED (FT.):** 81.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
543.0	CARBONDALE	HERRIN	COAL	3.9	78.0	

MAPID: 06300668000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** SE SE SE SE
QUADRANGLE: MAZON **LONGITUDE:** -88.493031 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.22543 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 620.0 **LOGGED (FT.):** 99.1 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
528.0	CARBONDALE	HERRIN	COAL	7.1	92.0	

MAPID: 06300628000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 25 **QUARTERS/FOOTAGES:** SW
QUADRANGLE: MAZON **LONGITUDE:** -88.487132 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.214238 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 627.0 **LOGGED (FT.):** 95.1 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
537.0	CARBONDALE	HERRIN	COAL	5.1	90.0	

MAPID: 06300630000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 25 **QUARTERS/FOOTAGES:** NE NE NE SW
QUADRANGLE: MAZON **LONGITUDE:** -88.483155 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.217478 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 621.0 **LOGGED (FT.):** 129.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
492.0	CARBONDALE	SPRINGFIELD	COAL	-	129.0	

MAPID: 06300631000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 25 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: MAZON **LONGITUDE:** -88.490909 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.218683 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 624.0 **LOGGED (FT.):** 90.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
542.0	CARBONDALE	HERRIN	COAL	8.0	82.0	

MAPID: 06300633000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 25 **QUARTERS/FOOTAGES:** NE NE NW NW
QUADRANGLE: MAZON **LONGITUDE:** -88.488251 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.224606 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 623.0 **LOGGED (FT.):** 77.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
552.0	CARBONDALE	HERRIN	COAL	6.0	71.0	

MAPID: 06300634000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 25 **QUARTERS/FOOTAGES:** SE SW NW
QUADRANGLE: MAZON **LONGITUDE:** -88.488545 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.218729 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 616.0 **LOGGED (FT.):** 83.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
541.0	CARBONDALE	HERRIN	COAL	8.5	75.0	

MAPID: 06300635000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 25 **QUARTERS/FOOTAGES:** SE NW NW
QUADRANGLE: MAZON **LONGITUDE:** -88.488726 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.222338 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 624.0 **LOGGED (FT.):** 90.4 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
541.0	CARBONDALE	HERRIN	COAL	7.4	83.0	

MAPID: 06300611000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 26 **QUARTERS/FOOTAGES:** SE NW SE SE
QUADRANGLE: MAZON **LONGITUDE:** -88.494816 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.212736 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 622.0 **LOGGED (FT.):** 68.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
555.0	CARBONDALE	HERRIN	COAL	1.0	67.0	

MAPID: 06300614000C VERSION: 1

PROJECT: RJJ-NCILL

COUNTY: GRUNDY

TWP/RNG: 32N 6E

SECTION: 26

QUARTERS/FOOTAGES: SE SW SW SE

QUADRANGLE: MAZON

LONGITUDE: -88.49957

GEOLOGIST: JACOBSON,R

CONFIDENTIAL: N

LATITUDE: 41.210837

DATE COLLECTED:

SURFACE ELEVATION (FT.): 627.0

LOGGED (FT.): 79.5

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Coal Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
555.0	CARBONDALE	HERRIN	COAL	7.5	72.0	

MAPID: 06300616000C VERSION: 1

PROJECT: NCRDS87

COUNTY: GRUNDY TWP/RNG: 32N 6E SECTION: 26 QUARTERS/FOOTAGES: SE SE SE SE

QUADRANGLE: MAZON LONGITUDE: -88.492308 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 41.210975 DATE COLLECTED: 0 / 0 / 1925

SURFACE ELEVATION (FT.): 629.6 LOGGED (FT.): 214.8 LOG TYPE: Drillers Log

SOURCE: VERONA COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
629.6			UNCONSOLIDATED	78.0	0.0	
551.6	CARBONDALE		UNDERCLAY	1.0	78.0	
550.6	CARBONDALE		SHALE	20.0	79.0	
530.6	CARBONDALE	HERRIN	COAL	2.9	99.0	UNCERTAIN CORRELATION
527.7	CARBONDALE		CLAYSTONE	0.2	101.9	
527.5	CARBONDALE		COAL	1.7	102.1	
525.8	CARBONDALE		CLAYSTONE	0.2	103.8	
525.6	CARBONDALE		COAL	1.8	104.0	
523.8	CARBONDALE		UNDERCLAY	2.3	105.8	
521.4	CARBONDALE		BONE COAL	1.1	108.2	
520.3	CARBONDALE		UNCLASSIFIED	1.3	109.3	
519.0	CARBONDALE		COAL	1.2	110.6	
517.8	CARBONDALE		UNDERCLAY	0.3	111.8	
517.5	CARBONDALE		BONE COAL	0.3	112.1	
517.2	CARBONDALE		UNDERCLAY	6.3	112.4	
510.8	CARBONDALE	SPRINGFIELD	COAL	2.0	118.8	
508.8	CARBONDALE		UNDERCLAY	5.2	120.8	
503.7	CARBONDALE		SANDSTONE	8.8	125.9	
494.9	CARBONDALE		CONGLOMERATE	2.5	134.7	
492.4	CARBONDALE		UNDERCLAY	1.1	137.2	
491.3	CARBONDALE	EXCELLO	BLACK SHALE	2.4	138.3	
488.9	CARBONDALE		UNDERCLAY	19.4	140.7	
469.5	CARBONDALE		SHALE	29.3	160.1	
440.3	CARBONDALE		UNDERCLAY	8.2	189.3	
432.1	CARBONDALE		SHALE	12.1	197.5	
420.0	CARBONDALE	COLCHESTER	COAL	3.0	209.6	
417.0	SPOON		UNDERCLAY	2.2	212.6	

MAPID: 06300616000C **VERSION:** 2 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 26 **QUARTERS/FOOTAGES:** SE SE SE SE
QUADRANGLE: MAZON **LONGITUDE:** -88.492308 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.210975 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 630.0 **LOGGED (FT.):** 213.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
530.0	CARBONDALE	HERRIN	COAL	9.8	100.0	
520.2	CARBONDALE		UNCLASSIFIED	28.2	109.8	
492.0	CARBONDALE	SPRINGFIELD	COAL	-	138.0	
492.0	CARBONDALE		UNCLASSIFIED	72.0	138.0	
420.0	CARBONDALE	COLCHESTER	COAL	3.0	210.0	

MAPID: 06300617000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 26 **QUARTERS/FOOTAGES:** SW NE NE
QUADRANGLE: MAZON **LONGITUDE:** -88.495869 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.222205 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 624.0 **LOGGED (FT.):** 100.4 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
531.0	CARBONDALE	HERRIN	COAL	7.4	93.0	

MAPID: 06300618000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 26 **QUARTERS/FOOTAGES:** SW NW NE
QUADRANGLE: KINSMAN **LONGITUDE:** -88.500662 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.222118 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 624.0 **LOGGED (FT.):** 96.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
535.0	CARBONDALE	HERRIN	COAL	7.9	89.0	

MAPID: 06300619000C VERSION: 1

PROJECT: RJJ-NCILL

COUNTY: GRUNDY

TWP/RNG: 32N 6E

SECTION: 26

QUARTERS/FOOTAGES: NE SE NE

QUADRANGLE: MAZON

LONGITUDE: -88.493382

GEOLOGIST: JACOBSON,R

CONFIDENTIAL: N

LATITUDE: 41.220441

DATE COLLECTED:

SURFACE ELEVATION (FT.): 623.0

LOGGED (FT.): 89.7

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Coal Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
541.0	CARBONDALE	HERRIN	COAL	7.7	82.0	

MAPID: 06390075000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 32N 6E SECTION: 31 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SE NW

QUADRANGLE: KINSMAN LONGITUDE: -88.583125 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.202543 DATE COLLECTED:

SURFACE ELEVATION (FT.): 662.0 LOGGED (FT.): 253.6 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 238 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0	PLEISTOCENE		UNCONSOLIDATED	156.2	0.0	
505.8			ROCK	0.4	156.2	
505.4			GRAY SHALE	3.4	156.6	
502.0			SHALE	3.6	160.0	
498.4			BLACK SHALE	2.0	163.6	
496.4			SHALE & SANDSTONE	1.3	165.6	
495.1			CONGLOMERATE	0.1	166.9	
495.1			CALCAREOUS SHALE	0.8	166.9	
494.3			SHALY SANDSTONE	2.2	167.7	
492.1			SANDSTONE	6.7	169.9	
485.5			GRAY SHALE	3.4	176.5	
482.0			SANDY SHALE	0.2	180.0	
481.9			GRAY SHALE	1.0	180.1	
480.8			SANDY SHALE	2.8	181.2	
478.0			SHALE & SANDSTONE	0.5	184.0	
477.5			GRAY SHALE	7.9	184.5	
469.5			SANDY SHALE	11.6	192.5	
457.9			SHALE	0.2	204.1	
457.8			SANDY SHALE	0.5	204.2	
457.3			SANDY SHALE	1.2	204.7	DARK GREY
456.1			SANDY SHALE	14.1	205.9	WITH PYRITE
442.0			SHALE	2.3	220.0	
439.8			GRAY SHALE	3.6	222.2	
436.2			DARK SHALE	4.8	225.8	
431.4	CARBONDALE	COLCHESTER	COAL	2.7	230.6	
428.8			UNDERCLAY	0.2	233.2	
428.6	TRADEWATER		CLAYSTONE	3.0	233.4	
425.6	TRADEWATER		SHALE	13.5	236.4	
412.1	TRADEWATER		CLAYSTONE	0.6	249.9	
411.5	TRADEWATER		CLAYSTONE	1.8	250.5	BLACK
409.8	TRADEWATER		SANDSTONE	0.4	252.2	
409.3	TRADEWATER		CLAYSTONE	0.6	252.7	
408.7			SANDSTONE	0.3	253.3	

MAPID: 06390076000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 32N 6E SECTION: 33 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SW SW
 QUADRANGLE: KINSMAN LONGITUDE: -88.54898 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.195366 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 653.0 LOGGED (FT.): 114.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 213 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
653.0	PLEISTOCENE		UNCONSOLIDATED	98.0	0.0
555.0	SHELBURN		DARK SHALE	7.5	98.0
547.5	CARBONDALE	HERRIN	COAL	6.5	105.5
541.0	CARBONDALE		SHALE	2.0	112.0

MAPID: 06390077000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 32N 6E SECTION: 33 QUARTERS/FOOTAGES: 1' N line, 1' E line of NE NE SW
 QUADRANGLE: KINSMAN LONGITUDE: -88.539494 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.20271 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 652.0 LOGGED (FT.): 237.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 227 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
652.0	PLEISTOCENE		UNCONSOLIDATED	96.0	0.0
556.0	PLEISTOCENE		UNCONSOLIDATED	3.0	96.0 AUGERED
553.0	CARBONDALE	HERRIN	SHALE/COAL	7.3	99.0 BLACK; TOP ERODED
545.7	CARBONDALE		SHALE & SANDSTONE	3.3	106.3 BLACK
542.3	CARBONDALE		SANDSTONE/SHALE	6.7	109.7 BLACK
535.7	CARBONDALE		GRAY SHALE	17.0	116.3 SIDERITE
518.7	CARBONDALE		BLACK SHALE	1.0	133.3
517.7	CARBONDALE	SPRINGFIELD	SHALE/COAL	1.5	134.3 BONE COAL TRACES
516.2	CARBONDALE		CONGLOMERATE	1.0	135.8
515.2	CARBONDALE		SHALE	4.0	136.8
511.2	CARBONDALE		SILTSTONE	22.0	140.8
489.2	CARBONDALE		SILTY SHALE	17.0	162.8
472.2	CARBONDALE		SANDSTONE	5.0	179.8
467.2	CARBONDALE		SILTY SHALE	26.2	184.8
441.0	CARBONDALE		GRAY SHALE	7.0	211.0
434.0	CARBONDALE	COLCHESTER	COAL	2.5	218.0
431.5	CARBONDALE		UNKNOWN	1.7	220.5
429.8	CARBONDALE		SILTSTONE	8.0	222.2
421.8	CARBONDALE		SILTY SHALE	1.8	230.2
420.0	CARBONDALE		CLAYSTONE	5.0	232.0

MAPID: 06390078000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 32N 6E SECTION: 33 QUARTERS/FOOTAGES: 1' S line, 1' E line of SE SW
 QUADRANGLE: KINSMAN LONGITUDE: -88.539107 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.195384 DATE COLLECTED: 6 / 16 / 1970
 SURFACE ELEVATION (FT.): 645.0 LOGGED (FT.): 222.0 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 231 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.0	PLEISTOCENE		UNCONSOLIDATED	90.0	0.0	
555.0	CARBONDALE		GRAY SHALE	60.0	90.0	
495.0	CARBONDALE	SPRINGFIELD	SHALE/COAL	1.0	150.0	
494.0	CARBONDALE		SILTY SHALE	61.0	151.0	
433.0	CARBONDALE		GRAY SHALE	5.0	212.0	
428.0	CARBONDALE	COLCHESTER	COAL	2.5	217.0	
425.5	CARBONDALE		GRAY SHALE	2.5	219.5	

MAPID: 06390079000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 32N 6E SECTION: 34 QUARTERS/FOOTAGES: SE SE
 QUADRANGLE: KINSMAN LONGITUDE: -88.512982 GEOLOGIST: STRAAYER
 CONFIDENTIAL: N LATITUDE: 41.197437 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 635.0 LOGGED (FT.): 166.3 LOG TYPE: Drillers Log
 SOURCE: AYRSHIRE 202 WELL TYPE: Coal Test
 COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
635.0	PLEISTOCENE		UNCONSOLIDATED	75.3	0.0	
559.7			GRAY SANDSTONE	53.3	75.3	
506.5	CARBONDALE		GRAY SHALE	5.2	128.5	WITH SIDERITE
501.3	CARBONDALE		CLAYSTONE	0.2	133.7	WHITE
501.1	CARBONDALE		GRAY SHALE	3.6	133.9	WITH SIDERITE
497.6	CARBONDALE		BLACK SHALE	3.1	137.4	
494.5	CARBONDALE		GRAY SHALE	2.8	140.5	PEBBLES NEAR TOP
491.7	CARBONDALE	SPRINGFIELD	COAL	2.0	143.3	
489.7	CARBONDALE		UNDERCLAY	3.0	145.3	
486.7	CARBONDALE		SILTY SHALE	2.3	148.3	
484.3	CARBONDALE		SANDY SHALE	2.8	150.7	
481.6	CARBONDALE		SHALE & SANDSTONE	12.8	153.4	

MAPID: 06300610000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 35 **QUARTERS/FOOTAGES:** NE NW NE
QUADRANGLE: MAZON **LONGITUDE:** -88.497708 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.20952 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 630.0 **LOGGED (FT.):** 210.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
546.0	CARBONDALE	HERRIN	COAL	4.5	84.0
541.5	CARBONDALE		UNCLASSIFIED	44.5	88.5
497.0	CARBONDALE	SPRINGFIELD	COAL	-	133.0
497.0	CARBONDALE		UNCLASSIFIED	74.0	133.0
423.0	CARBONDALE	COLCHESTER	COAL	3.0	207.0

MAPID: 06370004000C **VERSION:** 1 **PROJECT:** NCRDS
COUNTY: GRUNDY **TWP/RNG:** 32N 6E **SECTION:** 35 **QUARTERS/FOOTAGES:** 1050' S line, 1400' W line
QUADRANGLE: KINSMAN **LONGITUDE:** -88.505574 **GEOLOGIST:** LOUCHIOS
CONFIDENTIAL: N **LATITUDE:** 41.198689 **DATE COLLECTED:** 0 / 0 / 1921
SURFACE ELEVATION (FT.): 630.0 **LOGGED (FT.):** 224.0 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL 610 **WELL TYPE:** Coal Test
COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
630.0			UNCLASSIFIED	84.5	0.0
545.5	CARBONDALE	HERRIN	COAL	6.0	84.5
539.5	CARBONDALE		UNCLASSIFIED	42.5	90.5
497.0	CARBONDALE		BLACK SHALE	2.5	133.0
494.5	CARBONDALE	SPRINGFIELD	COAL	4.0	135.5
490.5	CARBONDALE		UNCLASSIFIED	31.5	139.5
459.0	CARBONDALE		SANDY SHALE	36.0	171.0
423.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	207.0
420.0	CARBONDALE		CLAYSTONE	14.0	210.0

MAPID: 06300603000C VERSION: 1

PROJECT: RJJ-NCILL

COUNTY: GRUNDY TWP/RNG: 32N 7E SECTION: 12 QUARTERS/FOOTAGES: NW NW NE
 QUADRANGLE: COAL CITY LONGITUDE: -88.370321 GEOLOGIST: JACOBSON,R
 CONFIDENTIAL: N LATITUDE: 41.270415 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 560.0 LOGGED (FT.): 37.2 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Coal Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
538.0	CARBONDALE	SPRINGFIELD	COAL	-	22.0	
538.0	CARBONDALE		UNCLASSIFIED	14.0	22.0	
524.0	CARBONDALE	HOUCHIN CREEK	COAL	1.2	36.0	

MAPID: 06300601000C VERSION: 1

PROJECT: NCRDS87

COUNTY: GRUNDY TWP/RNG: 32N 7E SECTION: 13 QUARTERS/FOOTAGES: NE NE SE
 QUADRANGLE: GARDNER LONGITUDE: -88.362653 GEOLOGIST: WEIBEL
 CONFIDENTIAL: N LATITUDE: 41.248981 DATE COLLECTED: 2 / 22 / 1932
 SURFACE ELEVATION (FT.): 556.9 LOGGED (FT.): 59.8 LOG TYPE: Drillers Log
 SOURCE: CENTRAL INDIANA COAL CO. WELL TYPE: Coal Test
 COMMENT: LOCATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
556.9			UNCONSOLIDATED	12.8	0.0	
544.1	CARBONDALE		SANDSTONE	8.7	12.8	
535.5	CARBONDALE		SHALE	10.8	21.4	
524.7	CARBONDALE		BLACK SHALE	3.0	32.2	
521.7	CARBONDALE		SHALE	10.0	35.2	
511.7	CARBONDALE	EXCELLO	BLACK SHALE	2.0	45.2	UNCERTAIN CORRELATION
509.7	CARBONDALE	HOUCHIN CREEK	COAL	2.0	47.2	UNCERTAIN CORRELATION
507.7	CARBONDALE		UNDERCLAY	3.0	49.2	
504.7	CARBONDALE		SHALE	7.7	52.2	

MAPID: 06300601000C VERSION: 2

PROJECT: RJJ-NCILL

COUNTY: GRUNDY TWP/RNG: 32N 7E SECTION: 13 QUARTERS/FOOTAGES: NE NE SE
 QUADRANGLE: GARDNER LONGITUDE: -88.362653 GEOLOGIST: JACOBSON,R
 CONFIDENTIAL: N LATITUDE: 41.248981 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 557.0 LOGGED (FT.): 49.0 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Coal Test
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
525.0	CARBONDALE	SPRINGFIELD	COAL	-	32.0	
525.0	CARBONDALE		UNCLASSIFIED	15.0	32.0	
510.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	47.0	

MAPID: 06300600000C VERSION: 1

PROJECT: RJJ-NCILL

COUNTY: GRUNDY

TWP/RNG: 32N 7E

SECTION: 14

QUARTERS/FOOTAGES: SE NE NE

QUADRANGLE: MORRIS

LONGITUDE: -88.382196

GEOLOGIST: JACOBSON,R

CONFIDENTIAL: N

LATITUDE: 41.253855

DATE COLLECTED:

SURFACE ELEVATION (FT.): 565.0

LOGGED (FT.): 59.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Coal Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
513.0	CARBONDALE	SPRINGFIELD	COAL	-	52.0
513.0	CARBONDALE		UNCLASSIFIED	7.0	52.0
506.0	CARBONDALE	HOUCHIN CREEK	COAL	-	59.0

MAPID: 06300599000C VERSION: 1

PROJECT: RJJ-NCILL

COUNTY: GRUNDY

TWP/RNG: 32N 7E

SECTION: 24

QUARTERS/FOOTAGES: SE SE NE

QUADRANGLE: GARDNER

LONGITUDE: -88.362387

GEOLOGIST: JACOBSON,R

CONFIDENTIAL: N

LATITUDE: 41.236342

DATE COLLECTED:

SURFACE ELEVATION (FT.): 557.0

LOGGED (FT.): 57.0

LOG TYPE: Drillers Log

SOURCE:

WELL TYPE: Coal Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
515.0	CARBONDALE	SPRINGFIELD	COAL	-	42.0
515.0	CARBONDALE		UNCLASSIFIED	13.0	42.0
502.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	55.0

MAPID: 06390080000C VERSION: 1

PROJECT: NCRDS02

COUNTY: GRUNDY TWP/RNG: 32N 7E SECTION: 30 QUARTERS/FOOTAGES: 1' N line, 1' W line of NW NW

QUADRANGLE: MAZON LONGITUDE: -88.473486 GEOLOGIST: STRAAYER

CONFIDENTIAL: N LATITUDE: 41.225339 DATE COLLECTED:

SURFACE ELEVATION (FT.): 617.0 LOGGED (FT.): 216.9 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 235 WELL TYPE: Coal Test

COMMENT: BOX 44

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
617.0	PLEISTOCENE		UNCONSOLIDATED	151.2	0.0	
465.8			LIMESTONE	0.1	151.2	
465.7			GRAY SANDSTONE	2.4	151.3	
463.3			SANDSTONE/CLAYSTONE	5.7	153.7	
457.6			SHALE & SANDSTONE	3.3	159.4	
454.4			SANDSTONE/SHALE	3.8	162.6	
450.6			SHALE & SANDSTONE	3.6	166.4	
447.1			GRAY SHALE	20.3	169.9	
426.7	CARBONDALE	COLCHESTER	COAL	2.4	190.3	
424.3			SILTSTONE	1.7	192.7	CARBONACEOUS
422.6			SILTSTONE	1.9	194.4	
420.7			SANDY SILTSTONE	10.7	196.3	
410.0			SILTSTONE/SANDSTONE	3.7	207.0	
406.4			SHALE & SANDSTONE	6.3	210.6	

MAPID: 06301020000C VERSION: 1

PROJECT: RJJ-NCILL

COUNTY: GRUNDY TWP/RNG: 32N 8E SECTION: 1 QUARTERS/FOOTAGES: SW NE NE

QUADRANGLE: COAL CITY LONGITUDE: -88.250579 GEOLOGIST: JACOBSON,R

CONFIDENTIAL: N LATITUDE: 41.285809 DATE COLLECTED:

SURFACE ELEVATION (FT.): 565.0 LOGGED (FT.): 96.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Coal Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
472.0	CARBONDALE	COLCHESTER	COAL	3.0	93.0	

MAPID: 06300075000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 4 **QUARTERS/FOOTAGES:** SW SE NW NE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.311147 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.284045 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 133.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
428.0	CARBONDALE	COLCHESTER	COAL	1.9	132.0	

MAPID: 06300076000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 7 **QUARTERS/FOOTAGES:** SE NE SW NE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.347923 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.267037 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 107.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
526.0	CARBONDALE	HOUCHIN CREEK	COAL	1.1	29.0	
524.9	CARBONDALE		UNCLASSIFIED	74.9	30.1	
450.0	CARBONDALE	COLCHESTER	COAL	2.9	105.0	

MAPID: 06300077000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 8 **QUARTERS/FOOTAGES:** NE NE SW NW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.338328 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.268147 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 115.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
530.0	CARBONDALE	HOUCHIN CREEK	COAL	-	28.0	
530.0	CARBONDALE		UNCLASSIFIED	84.0	28.0	
446.0	CARBONDALE	COLCHESTER	COAL	3.0	112.0	

MAPID: 06300596000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 8 **QUARTERS/FOOTAGES:** SW NE NW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.336543 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.269545 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 139.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
511.0	CARBONDALE	HOUCHIN CREEK	COAL	-	47.0	
511.0	CARBONDALE		UNCLASSIFIED	89.0	47.0	
422.0	CARBONDALE	COLCHESTER	COAL	3.0	136.0	

MAPID: 06300078000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 10 **QUARTERS/FOOTAGES:** SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.289553 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.262438 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 130.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
452.0	CARBONDALE	COLCHESTER	COAL	2.9	128.0	

MAPID: 06300595000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 10 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.285883 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.259759 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 572.0 **LOGGED (FT.):** 118.2 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
457.0	CARBONDALE	COLCHESTER	COAL	3.2	115.0	

MAPID: 06301023000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 13 **QUARTERS/FOOTAGES:** NE NW NW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.26189 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.258356 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 574.0 **LOGGED (FT.):** 126.7 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
451.0	CARBONDALE	COLCHESTER	COAL	3.7	123.0	

MAPID: 06300080000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 14 **QUARTERS/FOOTAGES:** NW SE
QUADRANGLE: GARDNER **LONGITUDE:** -88.272446 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.250064 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 111.3 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
462.0	CARBONDALE	COLCHESTER	COAL	3.3	108.0	

MAPID: 06300081000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 15 **QUARTERS/FOOTAGES:** SE NE NW SW
QUADRANGLE: GARDNER **LONGITUDE:** -88.299371 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.250004 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 126.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
451.0	CARBONDALE	COLCHESTER	COAL	2.5	124.0	

MAPID: 06300082000C VERSION: 1

PROJECT: NCRDS87

COUNTY: GRUNDY TWP/RNG: 32N 8E SECTION: 17 QUARTERS/FOOTAGES: NE NW

QUADRANGLE: COAL CITY LONGITUDE: -88.335052 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 41.255973 DATE COLLECTED:

SURFACE ELEVATION (FT.): 562.0 LOGGED (FT.): 151.8 LOG TYPE: Drillers Log

SOURCE: WILMINGTON STAR MINING CO. WELL TYPE: Coal Test

COMMENT: LOCATION & ELEVATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
562.0			UNCONSOLIDATED	23.5	0.0
538.5	CARBONDALE		SANDSTONE	12.0	23.5
526.5	CARBONDALE		UNCLASSIFIED	8.0	35.5
518.5	CARBONDALE		SANDSTONE	0.5	43.5
518.0	CARBONDALE		SHALE	0.5	44.0
517.5	CARBONDALE		BLACK SHALE	3.0	44.5
514.5	CARBONDALE		UNDERCLAY	4.5	47.5
510.0	CARBONDALE		SHALE	5.0	52.0
505.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.5	57.0
501.5	CARBONDALE	COLCHESTER	COAL	1.5	60.5
500.0	SPOON		UNDERCLAY	5.0	62.0
495.0	SPOON		SANDSTONE	32.5	67.0
462.5	SPOON		SHALE	4.3	99.5
458.2	SPOON		SANDSTONE	19.0	103.8
439.2	SPOON		SHALE	26.0	122.8
413.2	SPOON		COAL	3.0	148.8

MAPID: 06300082000C VERSION: 2

PROJECT: RJJ-NCILL

COUNTY: GRUNDY TWP/RNG: 32N 8E SECTION: 17 QUARTERS/FOOTAGES: NE NW

QUADRANGLE: COAL CITY LONGITUDE: -88.335052 GEOLOGIST: JACOBSON,R

CONFIDENTIAL: N LATITUDE: 41.255973 DATE COLLECTED:

SURFACE ELEVATION (FT.): 558.0 LOGGED (FT.): 151.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Coal Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
514.0	CARBONDALE	SPRINGFIELD	COAL	-	44.0
514.0	CARBONDALE		UNCLASSIFIED	16.0	44.0
498.0	CARBONDALE	HOUCHIN CREEK	COAL	1.5	60.0
496.5	CARBONDALE		UNCLASSIFIED	86.5	61.5
410.0	CARBONDALE	COLCHESTER	COAL	3.0	148.0

MAPID: 06301024000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 18 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.35307 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.251036 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 42.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
516.0	CARBONDALE	SPRINGFIELD	COAL	-	42.0	

MAPID: 06300083000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 20 **QUARTERS/FOOTAGES:** NE SE NE NW
QUADRANGLE: GARDNER **LONGITUDE:** -88.332934 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.241016 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 142.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
426.0	CARBONDALE	COLCHESTER	COAL	3.0	139.0	

MAPID: 06300084000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 22 **QUARTERS/FOOTAGES:** SE NE NW NE
QUADRANGLE: GARDNER **LONGITUDE:** -88.289537 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.242986 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 573.0 **LOGGED (FT.):** 121.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
455.0	CARBONDALE	COLCHESTER	COAL	3.5	118.0	

MAPID: 06300591000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 25 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: GARDNER **LONGITUDE:** -88.263133 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.229099 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 123.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0	CARBONDALE	COLCHESTER	COAL	3.0	120.0	

MAPID: 06300592000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 25 **QUARTERS/FOOTAGES:** NW NW NE SW
QUADRANGLE: GARDNER **LONGITUDE:** -88.258499 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.222488 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 580.0 **LOGGED (FT.):** 118.3 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
465.0	CARBONDALE	COLCHESTER	COAL	3.3	115.0	

MAPID: 06300740000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 26 **QUARTERS/FOOTAGES:** NE SE SW
QUADRANGLE: GARDNER **LONGITUDE:** -88.274703 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.218183 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 136.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
540.0	CARBONDALE	HOUCHIN CREEK	COAL	1.7	35.0	
538.3	CARBONDALE		UNCLASSIFIED	97.3	36.7	
441.0	CARBONDALE	COLCHESTER	COAL	2.5	134.0	

MAPID: 06300589000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 27 **QUARTERS/FOOTAGES:** SE SW NE SW
QUADRANGLE: GARDNER **LONGITUDE:** -88.295878 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.219136 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 569.0 **LOGGED (FT.):** 134.3 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
435.0	CARBONDALE	COLCHESTER	COAL	0.3	134.0	

MAPID: 06300588000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 28 **QUARTERS/FOOTAGES:** NE NW SE NE
QUADRANGLE: GARDNER **LONGITUDE:** -88.305732 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.225241 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 569.0 **LOGGED (FT.):** 135.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
437.0	CARBONDALE	COLCHESTER	COAL	3.5	132.0	

MAPID: 06300586000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 29 **QUARTERS/FOOTAGES:** NE NE NE SE
QUADRANGLE: GARDNER **LONGITUDE:** -88.322395 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.221299 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 567.0 **LOGGED (FT.):** 64.7 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
505.0	CARBONDALE	HOUCHIN CREEK	COAL	2.7	62.0	

MAPID: 06300587000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 29 **QUARTERS/FOOTAGES:** SE NW NW SW
QUADRANGLE: GARDNER **LONGITUDE:** -88.339559 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.220181 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 567.0 **LOGGED (FT.):** 67.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
510.0	CARBONDALE	HOUCHIN CREEK	COAL	1.7	57.0	
508.3	CARBONDALE		UNCLASSIFIED	8.3	58.7	
500.0	CARBONDALE	LOWELL	COAL	0.5	67.0	

MAPID: 06300585000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 30 **QUARTERS/FOOTAGES:** NE NE SW
QUADRANGLE: GARDNER **LONGITUDE:** -88.352217 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.220288 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 566.0 **LOGGED (FT.):** 62.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
523.0	CARBONDALE	SPRINGFIELD	COAL	-	43.0
523.0	CARBONDALE		UNCLASSIFIED	17.0	43.0
506.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	60.0

MAPID: 06300579000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 35 **QUARTERS/FOOTAGES:** SE NW NW NE
QUADRANGLE: GARDNER **LONGITUDE:** -88.271557 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.214155 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 124.4 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
540.0	CARBONDALE	HOUCHIN CREEK	COAL	3.0	35.0
537.0	CARBONDALE		UNCLASSIFIED	83.0	38.0
454.0	CARBONDALE	COLCHESTER	COAL	3.4	121.0

MAPID: 06300085000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 32N 8E **SECTION:** 36 **QUARTERS/FOOTAGES:** NE SW NW
QUADRANGLE: GARDNER **LONGITUDE:** -88.259917 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.211142 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 583.0 **LOGGED (FT.):** 96.1 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
488.0	CARBONDALE	COLCHESTER	COAL	1.1	95.0

MAPID: 06301652000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 2 **QUARTERS/FOOTAGES:** NW NE NE
QUADRANGLE: SENECA **LONGITUDE:** -88.502316 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.369559 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 143.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
430.0	CARBONDALE	COLCHESTER	COAL	3.0	140.0	

MAPID: 06301652000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 2 **QUARTERS/FOOTAGES:** NW NE NE
QUADRANGLE: SENECA **LONGITUDE:** -88.502316 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.369559 **DATE COLLECTED:** 7 / 1 / 1958
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 350.0 **LOG TYPE:** Drillers Log
SOURCE: J. T. ANDERSON **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
555.0			UNCONSOLIDATED	31.0	0.0	
524.0			ROCK	22.0	31.0	
502.0			SHALE	87.0	53.0	
415.0	CARBONDALE	COLCHESTER	COAL	3.0	140.0	
412.0			ROCK	207.0	143.0	

MAPID: 06300021000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 3 **QUARTERS/FOOTAGES:** NW NE NE
QUADRANGLE: SENECA **LONGITUDE:** -88.521626 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.369475 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 176.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
421.0	CARBONDALE	COLCHESTER	COAL	2.0	174.0	

MAPID: 06300021000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 3 **QUARTERS/FOOTAGES:** NW NE NE
QUADRANGLE: SENECA **LONGITUDE:** -88.521626 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.369475 **DATE COLLECTED:** 9 / 28 / 1914
SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 330.0 **LOG TYPE:** Drillers Log
SOURCE: ANDREW JOHNSON **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
595.0			UNCONSOLIDATED	95.0	0.0	
500.0			ROCK	79.0	95.0	
421.0	CARBONDALE	COLCHESTER	COAL	2.0	174.0	
419.0			ROCK	154.0	176.0	

MAPID: 06300578000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 3 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: SENECA **LONGITUDE:** -88.518687 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.356678 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 146.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
427.0	CARBONDALE	COLCHESTER	COAL	3.0	143.0	

MAPID: 06300578000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 3 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: SENECA **LONGITUDE:** -88.518687 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.356678 **DATE COLLECTED:** 0 / 0 / 1941
SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 330.0 **LOG TYPE:** Drillers Log
SOURCE: J. T. ANDERSON **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.0			UNDERCLAY/SHALE	140.0	0.0	
430.0	CARBONDALE	COLCHESTER	COAL	3.0	140.0	
427.0			ROCK	187.0	143.0	

MAPID: 06300022000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 9 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: SENECA **LONGITUDE:** -88.545008 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.347451 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 138.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
454.0	CARBONDALE	COLCHESTER	COAL	2.0	136.0	

MAPID: 06300022000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 9 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: SENECA **LONGITUDE:** -88.545008 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.347451 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 380.0 **LOG TYPE:** Drillers Log
SOURCE: C. J. ANDERSON **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.0			UNKNOWN	136.0	0.0	
424.0	CARBONDALE	COLCHESTER	COAL	2.0	136.0	
422.0			ROCK	242.0	138.0	

MAPID: 06300023000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 9 **QUARTERS/FOOTAGES:** NW NE SE
QUADRANGLE: SENECA **LONGITUDE:** -88.540203 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.347498 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 536.0 **LOGGED (FT.):** 100.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
438.0	CARBONDALE	COLCHESTER	COAL	2.0	98.0	

MAPID: 06300023000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 9 **QUARTERS/FOOTAGES:** NW NE SE
QUADRANGLE: SENECA **LONGITUDE:** -88.540203 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.347498 **DATE COLLECTED:** 8 / 2 / 1906
SURFACE ELEVATION (FT.): 520.0 **LOGGED (FT.):** 290.0 **LOG TYPE:** Drillers Log
SOURCE: C. J. ANDERSON **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
520.0			UNCONSOLIDATED	50.0	0.0	
470.0			ROCK	48.0	50.0	
422.0	CARBONDALE	COLCHESTER	COAL	2.0	98.0	
420.0			ROCK	190.0	100.0	

MAPID: 06300577000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 9 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: SENECA **LONGITUDE:** -88.554619 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.34735 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 609.0 **LOGGED (FT.):** 157.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
454.0	CARBONDALE	COLCHESTER	COAL	2.0	155.0	

MAPID: 06300577000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 9 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: SENECA **LONGITUDE:** -88.554619 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.34735 **DATE COLLECTED:** 3 / 0 / 1906
SURFACE ELEVATION (FT.): 610.0 **LOGGED (FT.):** 323.0 **LOG TYPE:** Drillers Log
SOURCE: T. F. ANDERSON **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.0			UNDERCLAY/SHALE	155.0	0.0	
455.0	CARBONDALE	COLCHESTER	COAL	2.0	155.0	
453.0			ROCK	166.0	157.0	

MAPID: 06301032000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 10 **QUARTERS/FOOTAGES:** NW SE NW
QUADRANGLE: SENECA **LONGITUDE:** -88.530677 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.351186 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 530.0 **LOGGED (FT.):** 87.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
445.0	CARBONDALE	COLCHESTER	COAL	2.0	85.0

MAPID: 06301032000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 10 **QUARTERS/FOOTAGES:** NW SE NW
QUADRANGLE: SENECA **LONGITUDE:** -88.530677 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.351186 **DATE COLLECTED:** 8 / 25 / 1950
SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 300.0 **LOG TYPE:** Drillers Log
SOURCE: J. T. ANDERSON **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
540.0			ROCK	85.0	0.0
455.0	CARBONDALE	COLCHESTER	COAL	2.0	85.0
453.0			ROCK	213.0	87.0

MAPID: 06322296000C **VERSION:** 1 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 10 **QUARTERS/FOOTAGES:** 1120' N line, 1270' W line
QUADRANGLE: SENECA **LONGITUDE:** -88.532176 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.352612 **DATE COLLECTED:** 7 / 10 / 1975
SURFACE ELEVATION (FT.): 587.0 **LOGGED (FT.):** 310.0 **LOG TYPE:** Drillers Log
SOURCE: S. DEAN ALBRECHT **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
587.0			UNCONSOLIDATED	24.0	0.0
563.0			SHALE	57.0	24.0
506.0	CARBONDALE	COLCHESTER	COAL	3.0	81.0
503.0			ROCK	226.0	84.0

MAPID: 06300895000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 11 **QUARTERS/FOOTAGES:** SW SW NE
QUADRANGLE: SENECA **LONGITUDE:** -88.506384 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.34954 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 520.0 **LOGGED (FT.):** 69.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
453.0	CARBONDALE	COLCHESTER	COAL	2.0	67.0	

MAPID: 06300895000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 11 **QUARTERS/FOOTAGES:** SW SW NE
QUADRANGLE: SENECA **LONGITUDE:** -88.506384 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.34954 **DATE COLLECTED:** 0 / 0 / 1955
SURFACE ELEVATION (FT.): 523.0 **LOGGED (FT.):** 406.0 **LOG TYPE:** Drillers Log
SOURCE: J. T. ANDERSON **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
523.0			UNCONSOLIDATED	10.0	0.0	
513.0			SHALE	57.0	10.0	
456.0	CARBONDALE	COLCHESTER	COAL	2.0	67.0	
454.0			ROCK	337.0	69.0	

MAPID: 06300938000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 11 **QUARTERS/FOOTAGES:** SW NW NE SE
QUADRANGLE: SENECA **LONGITUDE:** -88.50208 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.347329 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 517.0 **LOGGED (FT.):** 84.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
436.0	CARBONDALE	COLCHESTER	COAL	3.0	81.0	

MAPID: 06301659000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 11 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: SENECA **LONGITUDE:** -88.516199 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.354874 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 530.0 **LOGGED (FT.):** 85.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
448.0	CARBONDALE	COLCHESTER	COAL	3.0	82.0	

MAPID: 06301659000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 11 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: SENECA **LONGITUDE:** -88.516199 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.354874 **DATE COLLECTED:** 10 / 24 / 1902
SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 300.0 **LOG TYPE:** Drillers Log
SOURCE: T. F. ANDERSON **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
540.0			UNKNOWN	82.0	0.0	
458.0	CARBONDALE	COLCHESTER	COAL	3.0	82.0	
455.0			UNKNOWN	215.0	85.0	

MAPID: 06301034000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 12 **QUARTERS/FOOTAGES:** NE SE SW NW
QUADRANGLE: MORRIS **LONGITUDE:** -88.493744 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.350094 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 75.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
467.0	CARBONDALE	COLCHESTER	COAL	2.0	73.0	

MAPID: 06300937000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 14 **QUARTERS/FOOTAGES:** SW NE NW
QUADRANGLE: SENECA **LONGITUDE:** -88.510863 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.338627 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 504.0 **LOGGED (FT.):** 78.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
429.0	CARBONDALE	COLCHESTER	COAL	3.0	75.0	

MAPID: 06300940000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 14 **QUARTERS/FOOTAGES:** SE NE NE
QUADRANGLE: MORRIS **LONGITUDE:** -88.498714 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.33878 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 507.0 **LOGGED (FT.):** 94.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
416.0	CARBONDALE	COLCHESTER	COAL	3.0	91.0	

MAPID: 06300941000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 14 **QUARTERS/FOOTAGES:** NE NE NE NE
QUADRANGLE: MORRIS **LONGITUDE:** -88.498212 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.341065 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 502.0 **LOGGED (FT.):** 72.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
432.0	CARBONDALE	COLCHESTER	COAL	2.5	70.0	

MAPID: 06301662000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 14 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: SENECA **LONGITUDE:** -88.506076 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.340515 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 510.0 **LOGGED (FT.):** 77.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
435.0	CARBONDALE	COLCHESTER	COAL	2.0	75.0	

MAPID: 06301662000C VERSION: 2

PROJECT: BLM

COUNTY: GRUNDY TWP/RNG: 33N 6E SECTION: 14 QUARTERS/FOOTAGES: NW NW NE

QUADRANGLE: SENECA LONGITUDE: -88.506076 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 41.340515 DATE COLLECTED: 6 / 25 / 1946

SURFACE ELEVATION (FT.): 510.0 LOGGED (FT.): 335.0 LOG TYPE: Drillers Log

SOURCE: J. T. ANDERSON WELL TYPE: Water Well

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
510.0			UNCONSOLIDATED	30.0	0.0	
480.0			SHALE	45.0	30.0	
435.0	CARBONDALE	COLCHESTER	COAL	2.0	75.0	
433.0			ROCK	258.0	77.0	

MAPID: 063060D0001F VERSION: 1

PROJECT: BLM

COUNTY: GRUNDY TWP/RNG: 33N 6E SECTION: 14 QUARTERS/FOOTAGES: NW NW SE NE

QUADRANGLE: SENECA LONGITUDE: -88.501694 GEOLOGIST: TREWORGY,J

CONFIDENTIAL: N LATITUDE: 41.337371 DATE COLLECTED: 0 / 0 / 1919

SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 291.0 LOG TYPE: Drillers Log

SOURCE: FLD NOTES-CULVER WELL TYPE:

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0			UNCONSOLIDATED	5.0	0.0	
495.0			ROCK	70.0	5.0	
425.0			COAL	2.0	75.0	
423.0			ROCK	214.0	77.0	

MAPID: 06300024000C VERSION: 1

PROJECT: RJJ-NCILL

COUNTY: GRUNDY TWP/RNG: 33N 6E SECTION: 15 QUARTERS/FOOTAGES: NE NE SW NE

QUADRANGLE: SENECA LONGITUDE: -88.522307 GEOLOGIST: JACOBSON,R

CONFIDENTIAL: N LATITUDE: 41.337137 DATE COLLECTED:

SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 74.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Water Well

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
428.0	CARBONDALE	COLCHESTER	COAL	2.0	72.0	

MAPID: 06300024000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 15 **QUARTERS/FOOTAGES:** NE NE SW NE
QUADRANGLE: SENECA **LONGITUDE:** -88.522307 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.337137 **DATE COLLECTED:** 0 / 0 / 1916
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 291.0 **LOG TYPE:** Drillers Log
SOURCE: C. J. ANDERSON **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
500.0			UNCONSOLIDATED	2.0	0.0
498.0			ROCK	70.0	2.0
428.0	CARBONDALE	COLCHESTER	COAL	2.0	72.0
426.0			ROCK	217.0	74.0

MAPID: 06300576000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 15 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: SENECA **LONGITUDE:** -88.534511 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.327394 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 77.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
425.0	CARBONDALE	COLCHESTER	COAL	2.0	75.0

MAPID: 06300576000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 15 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: SENECA **LONGITUDE:** -88.534511 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.327394 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 291.0 **LOG TYPE:** Drillers Log
SOURCE: UNKNOWN **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
490.0			UNCONSOLIDATED	5.0	0.0
485.0			ROCK	70.0	5.0
415.0	CARBONDALE	COLCHESTER	COAL	2.0	75.0
413.0			ROCK	214.0	77.0

MAPID: 06301664000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 15 **QUARTERS/FOOTAGES:** NW SE NW
QUADRANGLE: SENECA **LONGITUDE:** -88.530104 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.336632 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 510.0 **LOGGED (FT.):** 94.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
418.0	CARBONDALE	COLCHESTER	COAL	2.5	92.0	

MAPID: 06301664000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 15 **QUARTERS/FOOTAGES:** NW SE NW
QUADRANGLE: SENECA **LONGITUDE:** -88.530104 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.336632 **DATE COLLECTED:** 9 / 30 / 1903
SURFACE ELEVATION (FT.): 512.0 **LOGGED (FT.):** 305.0 **LOG TYPE:** Drillers Log
SOURCE: C. J. ANDERSON **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
512.0			UNKNOWN	20.0	0.0	
492.0			ROCK	72.0	20.0	
420.0	CARBONDALE	COLCHESTER	COAL	2.5	92.0	
417.5			ROCK	210.5	94.5	

MAPID: 06300025000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 16 **QUARTERS/FOOTAGES:** SE SW SW NW
QUADRANGLE: SENECA **LONGITUDE:** -88.553436 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.334157 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 80.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
422.0	CARBONDALE	COLCHESTER	COAL	2.0	78.0	

MAPID: 06300025000C VERSION: 2

PROJECT: BLM

COUNTY: GRUNDY TWP/RNG: 33N 6E SECTION: 16 QUARTERS/FOOTAGES: SE SW SW NW
 QUADRANGLE: SENECA LONGITUDE: -88.553436 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 41.334157 DATE COLLECTED: 8 / 25 / 1903
 SURFACE ELEVATION (FT.): 501.0 LOGGED (FT.): 169.0 LOG TYPE: Drillers Log
 SOURCE: CHAS. DANIELSON WELL TYPE: Water Well
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
501.0			UNCONSOLIDATED	28.0	0.0	
473.0			ROCK	50.0	28.0	
423.0	CARBONDALE	COLCHESTER	COAL	2.0	78.0	
421.0			ROCK	89.0	80.0	

MAPID: 06301666000C VERSION: 1

PROJECT: BLM

COUNTY: GRUNDY TWP/RNG: 33N 6E SECTION: 17 QUARTERS/FOOTAGES: NE NE NW
 QUADRANGLE: SENECA LONGITUDE: -88.566309 GEOLOGIST: TREWORGY,J
 CONFIDENTIAL: N LATITUDE: 41.339877 DATE COLLECTED: 9 / 2 / 1926
 SURFACE ELEVATION (FT.): 536.0 LOGGED (FT.): 258.0 LOG TYPE: Drillers Log
 SOURCE: T. F. ANDERSON WELL TYPE: Water Well
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
536.0			UNCONSOLIDATED	16.0	0.0	
520.0			ROCK	62.0	16.0	
458.0			COAL	-	78.0	
458.0			ROCK	180.0	78.0	

MAPID: 06301667000C VERSION: 1

PROJECT: RJJ-NCILL

COUNTY: GRUNDY TWP/RNG: 33N 6E SECTION: 17 QUARTERS/FOOTAGES: NW NE NW
 QUADRANGLE: SENECA LONGITUDE: -88.568714 GEOLOGIST: JACOBSON,R
 CONFIDENTIAL: N LATITUDE: 41.339835 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 530.0 LOGGED (FT.): 76.0 LOG TYPE: Drillers Log
 SOURCE: WELL TYPE: Water Well
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
457.0	CARBONDALE	COLCHESTER	COAL	3.0	73.0	

MAPID: 06301667000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 17 **QUARTERS/FOOTAGES:** NW NE NW
QUADRANGLE: SENECA **LONGITUDE:** -88.568714 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.339835 **DATE COLLECTED:** 11 / 28 / 1928
SURFACE ELEVATION (FT.): 528.0 **LOGGED (FT.):** 264.0 **LOG TYPE:** Drillers Log
SOURCE: T. F. ANDERSON **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
528.0			UNCONSOLIDATED	15.0	0.0	
513.0			SHALE	58.0	15.0	"SOAPSTONE"
455.0	CARBONDALE	COLCHESTER	COAL	3.0	73.0	
452.0			ROCK	188.0	76.0	

MAPID: 06301669000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 20 **QUARTERS/FOOTAGES:** SW SW NE
QUADRANGLE: SENECA **LONGITUDE:** -88.563114 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.319893 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 495.0 **LOGGED (FT.):** 81.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
415.0	CARBONDALE	COLCHESTER	COAL	1.5	80.0	

MAPID: 06301669000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 20 **QUARTERS/FOOTAGES:** SW SW NE
QUADRANGLE: SENECA **LONGITUDE:** -88.563114 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.319893 **DATE COLLECTED:** 4 / 9 / 1943
SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 90.0 **LOG TYPE:** Drillers Log
SOURCE: J. T. ANDERSON **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
490.0			UNCONSOLIDATED	20.0	0.0	
470.0			ROCK	60.0	20.0	
410.0	CARBONDALE	COLCHESTER	COAL	1.5	80.0	
408.5			ROCK	8.5	81.5	

MAPID: 06300026000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 21 **QUARTERS/FOOTAGES:** NW NE NW
QUADRANGLE: SENECA **LONGITUDE:** -88.548862 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.325561 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 92.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
410.0	CARBONDALE	COLCHESTER	COAL	2.5	90.0	

MAPID: 06300026000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 21 **QUARTERS/FOOTAGES:** NW NE NW
QUADRANGLE: SENECA **LONGITUDE:** -88.548862 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.325561 **DATE COLLECTED:** 0 / 0 / 1916
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 285.8 **LOG TYPE:** Drillers Log
SOURCE: C. J. ANDERSON **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0			UNKNOWN	32.0	0.0	
468.0			ROCK	58.5	32.0	
409.5	CARBONDALE	COLCHESTER	COAL	2.5	90.5	
407.0			ROCK	192.8	93.0	

MAPID: 06300027000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 22 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: SENECA **LONGITUDE:** -88.524593 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.318451 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 178.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
464.0	CARBONDALE	HOUCHIN CREEK	COAL	-	131.0	
464.0	CARBONDALE		UNCLASSIFIED	47.0	131.0	
417.0	CARBONDALE	COLCHESTER	COAL	-	178.0	

MAPID: 06300027000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 22 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: SENECA **LONGITUDE:** -88.524593 **GEOLOGIST:** TREWORYG,J
CONFIDENTIAL: N **LATITUDE:** 41.318451 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 374.0 **LOG TYPE:** Drillers Log
SOURCE: CRAFT FARM **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
595.0			UNKNOWN	0.0	0.0	

MAPID: 06301040000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 22 **QUARTERS/FOOTAGES:** NW NE SE SE
QUADRANGLE: SENECA **LONGITUDE:** -88.517855 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.315369 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 602.0 **LOGGED (FT.):** 182.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
423.0	CARBONDALE	COLCHESTER	COAL	3.0	179.0	

MAPID: 06301040000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 22 **QUARTERS/FOOTAGES:** NW NE SE SE
QUADRANGLE: SENECA **LONGITUDE:** -88.517855 **GEOLOGIST:** TREWORYG,J
CONFIDENTIAL: N **LATITUDE:** 41.315369 **DATE COLLECTED:** 12 / 6 / 1895
SURFACE ELEVATION (FT.): 602.0 **LOGGED (FT.):** 408.0 **LOG TYPE:** Drillers Log
SOURCE: C. J. ANDERSON **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
602.0			UNKNOWN	137.0	0.0	
465.0			ROCK	42.0	137.0	
423.0	CARBONDALE	COLCHESTER	COAL	3.0	179.0	
420.0			ROCK	226.0	182.0	

MAPID: 06300575000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** NE NE NE
QUADRANGLE: MORRIS **LONGITUDE:** -88.49815 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.326016 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 582.0 **LOGGED (FT.):** 123.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
462.0	CARBONDALE	COLCHESTER	COAL	3.0	120.0

MAPID: 06300574000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 27 **QUARTERS/FOOTAGES:** NE NE SW
QUADRANGLE: SENECA **LONGITUDE:** -88.526311 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.303847 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 610.0 **LOGGED (FT.):** 203.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
495.0	CARBONDALE	SPRINGFIELD	COAL	2.0	115.0
493.0	CARBONDALE		UNCLASSIFIED	83.0	117.0
410.0	CARBONDALE	COLCHESTER	COAL	3.0	200.0

MAPID: 06300574000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 27 **QUARTERS/FOOTAGES:** NE NE SW
QUADRANGLE: SENECA **LONGITUDE:** -88.526311 **GEOLOGIST:** TREWORY,J
CONFIDENTIAL: N **LATITUDE:** 41.303847 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 609.0 **LOGGED (FT.):** 440.0 **LOG TYPE:** Drillers Log
SOURCE: C. J. ANDERSON **WELL TYPE:** Water Well
COMMENT: CORRELATIONS BY R. JACOBSON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
609.0			UNCONSOLIDATED	60.0	0.0
549.0			ROCK	55.0	60.0
494.0	CARBONDALE	SPRINGFIELD	COAL	2.0	115.0
492.0	CARBONDALE		ROCK	83.0	117.0
409.0	CARBONDALE	COLCHESTER	COAL	3.0	200.0
406.0			ROCK	237.0	203.0

MAPID: 06301043000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 27 **QUARTERS/FOOTAGES:** NW NW NE SE
QUADRANGLE: SENECA **LONGITUDE:** -88.519699 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.304372 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 608.0 **LOGGED (FT.):** 212.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
479.0	CARBONDALE	SPRINGFIELD	COAL	1.0	129.0
478.0	CARBONDALE		UNCLASSIFIED	82.0	130.0
396.0	CARBONDALE	COLCHESTER	COAL	-	212.0

MAPID: 06301043000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 27 **QUARTERS/FOOTAGES:** NW NW NE SE
QUADRANGLE: SENECA **LONGITUDE:** -88.519699 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.304372 **DATE COLLECTED:** 0 / 0 / 1916
SURFACE ELEVATION (FT.): 610.0 **LOGGED (FT.):** 494.7 **LOG TYPE:** Drillers Log
SOURCE: C. J. ANDERSON **WELL TYPE:** Water Well
COMMENT: CORRELATIONS BY R. JACOBSON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
610.0			UNCONSOLIDATED	53.0	0.0
557.0			ROCK	27.0	53.0
530.0	CARBONDALE	SPRINGFIELD	COAL	1.0	80.0
529.0	CARBONDALE		ROCK	73.0	81.0
456.0	CARBONDALE	COLCHESTER	COAL	-	154.0
456.0			ROCK	340.7	154.0

MAPID: 06300028000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 29 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: SENECA **LONGITUDE:** -88.564528 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.298042 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 606.0 **LOGGED (FT.):** 183.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
426.0	CARBONDALE	COLCHESTER	COAL	3.0	180.0

MAPID: 06300028000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 29 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: SENECA **LONGITUDE:** -88.564528 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.298042 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 596.0 **LOGGED (FT.):** 1510.0 **LOG TYPE:** Drillers Log
SOURCE: J. A. M. ROBINSON, ENGR. **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
596.0			UNCONSOLIDATED	71.0	0.0	
525.0			ROCK	72.0	71.0	
453.0			SHALE	37.0	143.0	
416.0	CARBONDALE	COLCHESTER	COAL	3.0	180.0	
413.0			ROCK	1327.0	183.0	

MAPID: 06300028000C **VERSION:** 3 **PROJECT:** NCRDS87
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 29 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: SENECA **LONGITUDE:** -88.564528 **GEOLOGIST:** WEIBEL
CONFIDENTIAL: N **LATITUDE:** 41.298042 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 604.0 **LOGGED (FT.):** 224.0 **LOG TYPE:** Drillers Log
SOURCE: E.I. DUPONT DE NEMOURS & CO. **WELL TYPE:** Unsuccessful or Unknown Results
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
604.0			UNCONSOLIDATED	71.0	0.0	
533.0	CARBONDALE		SANDSTONE	6.0	71.0	
527.0	CARBONDALE		SHALE	59.0	77.0	
468.0	CARBONDALE		SANDSTONE	7.0	136.0	
461.0	CARBONDALE		SHALE	37.0	143.0	
424.0	CARBONDALE	COLCHESTER	COAL	3.0	180.0	
421.0	SPOON		SHALE	41.0	183.0	

MAPID: 06300573000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 30 **QUARTERS/FOOTAGES:** SW NE NE NW
QUADRANGLE: SENECA **LONGITUDE:** -88.584946 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.310123 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 108.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
396.0	CARBONDALE	COLCHESTER	COAL	4.0	104.0	

MAPID: 06300573000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 30 **QUARTERS/FOOTAGES:** SW NE NE NW
QUADRANGLE: SENECA **LONGITUDE:** -88.584946 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.310123 **DATE COLLECTED:** 0 / 0 / 1943
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 360.0 **LOG TYPE:** Drillers Log
SOURCE: J. P. MILLER, ARTESIAN WELL CO **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0			ROCK	40.0	0.0	
460.0			LIMESTONE	64.0	40.0	
396.0	CARBONDALE	COLCHESTER	COAL	4.0	104.0	
392.0			ROCK	252.0	108.0	

MAPID: 06301055000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 30 **QUARTERS/FOOTAGES:** NE SW NE NW
QUADRANGLE: SENECA **LONGITUDE:** -88.586114 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.309202 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 95.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
408.0	CARBONDALE	COLCHESTER	COAL	3.0	92.0	

MAPID: 06301055000C **VERSION:** 2 **PROJECT:** BLM
COUNTY: GRUNDY **TWP/RNG:** 33N 6E **SECTION:** 30 **QUARTERS/FOOTAGES:** NE SW NE NW
QUADRANGLE: SENECA **LONGITUDE:** -88.586114 **GEOLOGIST:** TREWORGY,J
CONFIDENTIAL: N **LATITUDE:** 41.309202 **DATE COLLECTED:** 10 / 18 / 1950
SURFACE ELEVATION (FT.): 510.0 **LOGGED (FT.):** 310.0 **LOG TYPE:** Drillers Log
SOURCE: J. T. ANDERSON **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
510.0			UNCONSOLIDATED	35.0	0.0	
475.0			SHALE	57.0	35.0	SANDY
418.0	CARBONDALE	COLCHESTER	COAL	3.0	92.0	
415.0			ROCK	215.0	95.0	

MAPID: 06300029000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 3 **QUARTERS/FOOTAGES:** SE NE NW NW
QUADRANGLE: MORRIS **LONGITUDE:** -88.417643 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.370861 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 24.6 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
493.0	CARBONDALE	COLCHESTER	COAL	2.6	22.0	

MAPID: 06301692000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 3 **QUARTERS/FOOTAGES:** SW SW NE
QUADRANGLE: MORRIS **LONGITUDE:** -88.410876 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.365933 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 525.0 **LOGGED (FT.):** 37.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
491.0	CARBONDALE	COLCHESTER	COAL	3.0	34.0	

MAPID: 06300030000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 4 **QUARTERS/FOOTAGES:** NE NW
QUADRANGLE: MORRIS **LONGITUDE:** -88.433983 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.369973 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 520.0 **LOGGED (FT.):** 28.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
494.0	CARBONDALE	COLCHESTER	COAL	2.0	26.0	

MAPID: 06300031000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 4 **QUARTERS/FOOTAGES:** NE NW SE
QUADRANGLE: MORRIS **LONGITUDE:** -88.427672 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.363704 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 510.0 **LOGGED (FT.):** 65.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
447.0	CARBONDALE	COLCHESTER	COAL	2.5	63.0	

MAPID: 06301079000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 4 **QUARTERS/FOOTAGES:** SW SE SE
QUADRANGLE: MORRIS **LONGITUDE:** -88.425053 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.358226 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 523.0 **LOGGED (FT.):** 69.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
456.0	CARBONDALE	COLCHESTER	COAL	2.0	67.0	

MAPID: 06301080000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 4 **QUARTERS/FOOTAGES:** SW NW SE
QUADRANGLE: MORRIS **LONGITUDE:** -88.430025 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.361819 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 60.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
445.0	CARBONDALE	COLCHESTER	COAL	-	60.0	

MAPID: 06302040000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 4 **QUARTERS/FOOTAGES:** SE NW
QUADRANGLE: MORRIS **LONGITUDE:** -88.433838 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.36632 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 523.0 **LOGGED (FT.):** 34.8 **LOG TYPE:** Survey Core Study
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
491.0	CARBONDALE	COLCHESTER	COAL	2.8	32.0	

MAPID: 06390014000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 4 **QUARTERS/FOOTAGES:** 1180' N line, 1400' W line of NW
QUADRANGLE: MORRIS **LONGITUDE:** -88.436096 **GEOLOGIST:** J.MCBETH
CONFIDENTIAL: N **LATITUDE:** 41.368491 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 526.0 **LOGGED (FT.):** 42.8 **LOG TYPE:** Company map
SOURCE: MIDLAND COAL CO. 812 **WELL TYPE:** Coal Test
COMMENT: MORE DRILL HOLES AVAIL. ON MAP-CASE 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
526.0			UNCLASSIFIED	40.0	0.0
486.0	CARBONDALE	COLCHESTER	COAL	2.8	40.0

MAPID: 06390015000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 4 **QUARTERS/FOOTAGES:** 80' N line, 320' E line of SW
QUADRANGLE: MORRIS **LONGITUDE:** -88.432505 **GEOLOGIST:** J.MCBETH
CONFIDENTIAL: N **LATITUDE:** 41.364298 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 428.5 **LOGGED (FT.):** 37.6 **LOG TYPE:** Company map
SOURCE: MIDLAND COAL CO. 3946 **WELL TYPE:** Coal Test
COMMENT: MORE DRILL HOLES AVAIL. ON MAP-CASE 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
428.5			UNCLASSIFIED	35.0	0.0
393.5	CARBONDALE	COLCHESTER	COAL	2.6	35.0

MAPID: 06390016000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 4 **QUARTERS/FOOTAGES:** 160' N line, 1560' W line of SW
QUADRANGLE: MORRIS **LONGITUDE:** -88.43532 **GEOLOGIST:** J.MCBETH
CONFIDENTIAL: N **LATITUDE:** 41.36402 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 45.2 **LOG TYPE:** Company map
SOURCE: MIDLAND COAL CO. 3969 **WELL TYPE:** Coal Test
COMMENT: MORE DRILL HOLES AVAIL ON MAP-CASE 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			UNCLASSIFIED	43.0	0.0
-	CARBONDALE	COLCHESTER	COAL	2.2	43.0

MAPID: 06390017000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 4 **QUARTERS/FOOTAGES:** 720' S line, 1000' W line of NW
QUADRANGLE: MORRIS **LONGITUDE:** -88.437468 **GEOLOGIST:** J.MCBETH
CONFIDENTIAL: N **LATITUDE:** 41.366399 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 521.0 **LOGGED (FT.):** 39.4 **LOG TYPE:** Company map
SOURCE: MIDLAND COAL CO. 819 **WELL TYPE:** Coal Test
COMMENT: MORE DRILL HOLES AVAIL ON MAP-CASE 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
521.0			UNCLASSIFIED	37.0	0.0	
484.0	CARBONDALE	COLCHESTER	COAL	2.4	37.0	

MAPID: 06301083000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 5 **QUARTERS/FOOTAGES:** NE NE NW
QUADRANGLE: MORRIS **LONGITUDE:** -88.452159 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.37038 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 80.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
467.0	CARBONDALE	COLCHESTER	COAL	2.0	78.0	

MAPID: 06301698000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 5 **QUARTERS/FOOTAGES:** NW NE SE
QUADRANGLE: MORRIS **LONGITUDE:** -88.444617 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.363332 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 525.0 **LOGGED (FT.):** 49.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
478.0	CARBONDALE	COLCHESTER	COAL	2.0	47.0	

MAPID: 06301701000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 6 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: MORRIS **LONGITUDE:** -88.468839 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.369959 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 530.0 **LOGGED (FT.):** 95.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
437.0	CARBONDALE	COLCHESTER	COAL	2.5	93.0	

MAPID: 06301703000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 7 **QUARTERS/FOOTAGES:** NE SW NE
QUADRANGLE: MORRIS **LONGITUDE:** -88.466036 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.351925 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 94.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
423.0	CARBONDALE	COLCHESTER	COAL	2.0	92.0	

MAPID: 06390003000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 7 **QUARTERS/FOOTAGES:** 140' S line, 1580' E line of SE
QUADRANGLE: MORRIS **LONGITUDE:** -88.466023 **GEOLOGIST:** J.MCBETH
CONFIDENTIAL: N **LATITUDE:** 41.342332 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 490.0 **LOGGED (FT.):** 60.3 **LOG TYPE:** Company map
SOURCE: MIDLAND COAL CO. 2572 **WELL TYPE:** Coal Test
COMMENT: MORE DRILL HOLES AVAIL. ON MAP-CASE 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
490.0			UNCLASSIFIED	57.0	0.0	
433.0	CARBONDALE	COLCHESTER	COAL	3.3	57.0	

MAPID: 06390004000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 8 **QUARTERS/FOOTAGES:** 940' S line, 1020' E line of SE
QUADRANGLE: MORRIS **LONGITUDE:** -88.444701 **GEOLOGIST:** J.MCBETH
CONFIDENTIAL: N **LATITUDE:** 41.345037 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 492.0 **LOGGED (FT.):** 40.0 **LOG TYPE:** Company map
SOURCE: MIDLAND COAL CO. 2528 **WELL TYPE:** Coal Test
COMMENT: MORE DRILL HOLES AVAIL.ON MAP-CASE 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
492.0			UNCLASSIFIED	37.0	0.0
455.0	CARBONDALE	COLCHESTER	COAL	3.0	37.0

MAPID: 06390005000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 8 **QUARTERS/FOOTAGES:** 480' S line, 740' E line of SW
QUADRANGLE: MORRIS **LONGITUDE:** -88.453319 **GEOLOGIST:** J.MCBETH
CONFIDENTIAL: N **LATITUDE:** 41.345548 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 492.0 **LOGGED (FT.):** 65.5 **LOG TYPE:** Company map
SOURCE: MIDLAND COAL CO. 2068 **WELL TYPE:** Coal Test
COMMENT: MORE DRILL HOLES AVAIL. ON MAP - CASE 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
492.0			UNCLASSIFIED	63.0	0.0
429.0	CARBONDALE	COLCHESTER	COAL	2.5	63.0

MAPID: 06390001000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 9 **QUARTERS/FOOTAGES:** 1020' S line, 600' E line of SW
QUADRANGLE: MORRIS **LONGITUDE:** -88.43347 **GEOLOGIST:** J.MCBETH
CONFIDENTIAL: N **LATITUDE:** 41.345564 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 493.0 **LOGGED (FT.):** 28.1 **LOG TYPE:** Company map
SOURCE: MIDLAND COAL CO. 2578 **WELL TYPE:** Coal Test
COMMENT: MORE DRILL HOLES AVAIL.ON MAP-CASE6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
493.0			UNCLASSIFIED	26.0	0.0
467.0	CARBONDALE	COLCHESTER	COAL	2.1	26.0

MAPID: 06300032000C **VERSION:** 1 **PROJECT:** NCRDS87
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 10 **QUARTERS/FOOTAGES:** NW SW SW
QUADRANGLE: MORRIS **LONGITUDE:** -88.420377 **GEOLOGIST:** WEIBEL
CONFIDENTIAL: N **LATITUDE:** 41.345795 **DATE COLLECTED:** 3 / 0 / 1933
SURFACE ELEVATION (FT.): 496.0 **LOGGED (FT.):** 46.2 **LOG TYPE:** Drillers Log
SOURCE: CENTRAL INDIANA COAL CO. **WELL TYPE:** Coal Test
COMMENT: LOCATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
496.0			UNCONSOLIDATED	31.3	0.0
464.7	CARBONDALE		SHALE	10.7	31.3
454.0	CARBONDALE	COLCHESTER	COAL	2.7	42.0
451.3	SPOON		UNDERCLAY	1.5	44.7

MAPID: 06300032000C **VERSION:** 2 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 10 **QUARTERS/FOOTAGES:** NW SW SW
QUADRANGLE: MORRIS **LONGITUDE:** -88.420377 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.345795 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 496.0 **LOGGED (FT.):** 44.7 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
454.0	CARBONDALE	COLCHESTER	COAL	2.7	42.0

MAPID: 06301102000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 13 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.371712 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.335838 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 525.0 **LOGGED (FT.):** 77.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
451.0	CARBONDALE	COLCHESTER	COAL	3.0	74.0

MAPID: 06301715000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 13 **QUARTERS/FOOTAGES:** SE NW NE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.369426 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.341348 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 530.0 **LOGGED (FT.):** 74.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
459.0	CARBONDALE	COLCHESTER	COAL	3.0	71.0	

MAPID: 06301716000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 13 **QUARTERS/FOOTAGES:** SE NE SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.364448 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.334151 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 530.0 **LOGGED (FT.):** 57.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0	CARBONDALE	COLCHESTER	COAL	2.0	55.0	

MAPID: 06302047000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 15 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: MORRIS **LONGITUDE:** -88.419996 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.329345 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 535.0 **LOGGED (FT.):** 13.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
523.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	12.0	

MAPID: 06390002000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 16 **QUARTERS/FOOTAGES:** 360' N line, 1020' W line of NW
QUADRANGLE: MORRIS **LONGITUDE:** -88.437256 **GEOLOGIST:** J.MCBETH
CONFIDENTIAL: N **LATITUDE:** 41.341654 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 496.0 **LOGGED (FT.):** 78.2 **LOG TYPE:** Company map
SOURCE: MIDLAND COAL CO. 4180 **WELL TYPE:** Coal Test
COMMENT: MORE DRILL HOLES AVAIL. ON MAP CASE 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
496.0			UNCLASSIFIED	74.0	0.0
422.0	CARBONDALE	COLCHESTER	COAL	4.2	74.0

MAPID: 06390008000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 17 **QUARTERS/FOOTAGES:** 520' N line, 980' W line of NW
QUADRANGLE: MORRIS **LONGITUDE:** -88.456622 **GEOLOGIST:** J.MCBETH
CONFIDENTIAL: N **LATITUDE:** 41.340706 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 492.0 **LOGGED (FT.):** 42.5 **LOG TYPE:** Company map
SOURCE: MIDLAND COAL CO. 2564 **WELL TYPE:** Coal Test
COMMENT: MORE DRILL HOLES AVAIL. ON MAP-CASE 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
492.0			UNCLASSIFIED	40.0	0.0
452.0	CARBONDALE	COLCHESTER	COAL	2.5	40.0

MAPID: 06390009000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 17 **QUARTERS/FOOTAGES:** 640' S line, 380' E line of NW
QUADRANGLE: MORRIS **LONGITUDE:** -88.451839 **GEOLOGIST:** J.MCBETH
CONFIDENTIAL: N **LATITUDE:** 41.33673 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 499.0 **LOGGED (FT.):** 78.4 **LOG TYPE:** Company map
SOURCE: MIDLAND COAL CO. 4170 **WELL TYPE:** Coal Test
COMMENT: MORE DRILL HOLES AVAIL. ON MAP-CASE 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
499.0			UNCLASSIFIED	75.0	0.0
424.0	CARBONDALE	COLCHESTER	COAL	3.4	75.0

MAPID: 0639001000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 17 **QUARTERS/FOOTAGES:** 640' N line, 400' W line of NE
QUADRANGLE: MORRIS **LONGITUDE:** -88.449113 **GEOLOGIST:** J.MCBETH
CONFIDENTIAL: N **LATITUDE:** 41.340569 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 494.0 **LOGGED (FT.):** 68.8 **LOG TYPE:** Company map
SOURCE: MIDLAND COAL CO. 4115 **WELL TYPE:** Coal Test
COMMENT: MORE DRILL HOLES AVAIL. ON MAP-CASE 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
494.0			UNCLASSIFIED	65.0	0.0
429.0	CARBONDALE	COLCHESTER	COAL	3.8	65.0

MAPID: 06390011000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 17 **QUARTERS/FOOTAGES:** 380' S line, 640' E line of NE
QUADRANGLE: MORRIS **LONGITUDE:** -88.443124 **GEOLOGIST:** J.MCBETH
CONFIDENTIAL: N **LATITUDE:** 41.336212 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 508.0 **LOGGED (FT.):** 85.9 **LOG TYPE:** Company map
SOURCE: MIDLAND COAL CO. 1965 **WELL TYPE:** Coal Test
COMMENT: MORE DRILL HOLES AVAIL. ON MAP-CASE 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
508.0			UNCLASSIFIED	82.0	0.0
426.0	CARBONDALE	COLCHESTER	COAL	3.9	82.0

MAPID: 06390007000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 18 **QUARTERS/FOOTAGES:** 560' S line, 1840' E line of NE
QUADRANGLE: MORRIS **LONGITUDE:** -88.466808 **GEOLOGIST:** J.MCBETH
CONFIDENTIAL: N **LATITUDE:** 41.336186 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 500.0 **LOGGED (FT.):** 37.0 **LOG TYPE:** Company map
SOURCE: MIDLAND COAL CO. 4089 **WELL TYPE:** Coal Test
COMMENT: MORE DRILL HOLES AVAIL. ON MAP-CASE 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
500.0			UNCLASSIFIED	35.0	0.0
465.0	CARBONDALE	COLCHESTER	COAL	2.0	35.0

MAPID: 06301735000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 21 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: MORRIS **LONGITUDE:** -88.42961 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.327269 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 538.0 **LOGGED (FT.):** 100.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
438.0	CARBONDALE	COLCHESTER	COAL	-	100.0	

MAPID: 06301743000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 23 **QUARTERS/FOOTAGES:** SE SE NE
QUADRANGLE: MORRIS **LONGITUDE:** -88.383496 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.322879 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 113.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
440.0	CARBONDALE	COLCHESTER	COAL	3.0	110.0	

MAPID: 06300035000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 25 **QUARTERS/FOOTAGES:** NW SW NW
QUADRANGLE: MORRIS **LONGITUDE:** -88.380794 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.310227 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 103.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
450.0	CARBONDALE	COLCHESTER	COAL	3.0	100.0	

MAPID: 06301751000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 26 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: MORRIS **LONGITUDE:** -88.392886 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.308135 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 143.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
412.0	CARBONDALE	COLCHESTER	COAL	-	143.0	

MAPID: 06300036000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 33 **QUARTERS/FOOTAGES:** SE SE SE SW
QUADRANGLE: MORRIS **LONGITUDE:** -88.430359 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.285127 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 206.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
485.0	CARBONDALE	HOUCHIN CREEK	COAL	-	85.0	
485.0	CARBONDALE		UNCLASSIFIED	117.0	85.0	
368.0	CARBONDALE	COLCHESTER	COAL	4.0	202.0	

MAPID: 06300572000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 33 **QUARTERS/FOOTAGES:** SE NE NE
QUADRANGLE: MORRIS **LONGITUDE:** -88.421615 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.296668 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 39.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
523.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	37.0	

MAPID: 06301120000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 34 **QUARTERS/FOOTAGES:** NW NE NE
QUADRANGLE: MORRIS **LONGITUDE:** -88.404713 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.298815 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 56.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
511.0	CARBONDALE	SPRINGFIELD	COAL	-	44.0	
511.0	CARBONDALE		UNCLASSIFIED	10.0	44.0	
501.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	54.0	

MAPID: 06301761000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 35 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: MORRIS **LONGITUDE:** -88.399714 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.286252 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 38.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
522.0	CARBONDALE	HOUCHIN CREEK	COAL	-	38.0

MAPID: 06301123000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 36 **QUARTERS/FOOTAGES:** SW
QUADRANGLE: MORRIS **LONGITUDE:** -88.376746 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.289454 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 36.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
515.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	35.0

MAPID: 06301765000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 36 **QUARTERS/FOOTAGES:** NE NW SW
QUADRANGLE: MORRIS **LONGITUDE:** -88.378003 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.292144 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 36.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
520.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	35.0

MAPID: 06301766000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 36 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: MORRIS **LONGITUDE:** -88.380327 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.286653 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 106.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
455.0	CARBONDALE	COLCHESTER	COAL	3.0	103.0

MAPID: 06301767000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 7E **SECTION:** 36 **QUARTERS/FOOTAGES:** SE SW NW
QUADRANGLE: MORRIS **LONGITUDE:** -88.378032 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.293956 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 36.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
522.0	CARBONDALE	HOUCHIN CREEK	COAL	-	36.0	

MAPID: 06300038000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 9 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.307242 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.346325 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 522.0 **LOGGED (FT.):** 19.1 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
506.0	CARBONDALE	COLCHESTER	COAL	3.1	16.0	

MAPID: 06300040000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 9 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.323908 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.345998 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 520.0 **LOGGED (FT.):** 10.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
512.0	CARBONDALE	COLCHESTER	COAL	2.5	8.0	

MAPID: 06301173000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 15 **QUARTERS/FOOTAGES:** SW SW SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.294873 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.331997 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 33.1 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
520.0	CARBONDALE	COLCHESTER	COAL	3.1	30.0	

MAPID: 06301174000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 15 **QUARTERS/FOOTAGES:** SW SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.293697 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.332929 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 24.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
529.0	CARBONDALE	COLCHESTER	COAL	3.0	21.0	

MAPID: 06301175000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 15 **QUARTERS/FOOTAGES:** SW NE SW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.299764 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.335554 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 23.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
525.0	CARBONDALE	COLCHESTER	COAL	3.5	20.0	

MAPID: 06301181000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 15 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.304461 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.331831 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 542.0 **LOGGED (FT.):** 23.7 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
522.0	CARBONDALE	COLCHESTER	COAL	3.7	20.0	

MAPID: 06300049000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 16 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.323609 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.331487 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 46.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
502.0	CARBONDALE	COLCHESTER	COAL	3.0	43.0	

MAPID: 06300535000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 16 **QUARTERS/FOOTAGES:** SW NW SE NW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.319617 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.340187 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 535.0 **LOGGED (FT.):** 14.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
523.0	CARBONDALE	COLCHESTER	COAL	2.9	12.0	

MAPID: 06300539000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 16 **QUARTERS/FOOTAGES:** SW NW SW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.323685 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.335117 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 31.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
512.0	CARBONDALE	COLCHESTER	COAL	3.0	28.0	

MAPID: 06300540000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 16 **QUARTERS/FOOTAGES:** SW NW NE SW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.319533 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.336557 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 32.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
510.0	CARBONDALE	COLCHESTER	COAL	2.0	30.0	

MAPID: 06300543000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 16 **QUARTERS/FOOTAGES:** NW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.320242 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.341539 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 530.0 **LOGGED (FT.):** 16.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
516.0	CARBONDALE	COLCHESTER	COAL	2.5	14.0	

MAPID: 06300559000C VERSION: 1

PROJECT: NCRDS87

COUNTY: GRUNDY TWP/RNG: 33N 8E SECTION: 16 QUARTERS/FOOTAGES: NE NE SW

QUADRANGLE: COAL CITY LONGITUDE: -88.316557 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 41.337066 DATE COLLECTED:

SURFACE ELEVATION (FT.): 530.0 LOGGED (FT.): 37.8 LOG TYPE: Drillers Log

SOURCE: N.ILL. COAL CORP. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
530.0			UNCONSOLIDATED	12.0	0.0	
518.0	CARBONDALE		SHALE	2.8	12.0	
515.2	CARBONDALE	COLCHESTER	COAL	3.2	14.8	
512.0	SPOON		UNDERCLAY	6.4	18.0	
505.6	SPOON		SHALE	3.3	24.4	
502.2	SPOON		UNCLASSIFIED	2.5	27.8	
499.7	CARBONDALE		SHALE	7.5	30.3	

MAPID: 06300559000C VERSION: 2

PROJECT: RJJ-NCILL

COUNTY: GRUNDY TWP/RNG: 33N 8E SECTION: 16 QUARTERS/FOOTAGES: NE NE SW

QUADRANGLE: COAL CITY LONGITUDE: -88.316557 GEOLOGIST: JACOBSON,R

CONFIDENTIAL: N LATITUDE: 41.337066 DATE COLLECTED:

SURFACE ELEVATION (FT.): 538.0 LOGGED (FT.): 17.1 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Coal Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
524.0	CARBONDALE	COLCHESTER	COAL	3.1	14.0	

MAPID: 06300053000C VERSION: 1

PROJECT: RJJ-NCILL

COUNTY: GRUNDY TWP/RNG: 33N 8E SECTION: 17 QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: COAL CITY LONGITUDE: -88.342775 GEOLOGIST: JACOBSON,R

CONFIDENTIAL: N LATITUDE: 41.331082 DATE COLLECTED:

SURFACE ELEVATION (FT.): 536.0 LOGGED (FT.): 55.7 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Coal Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
482.0	CARBONDALE	COLCHESTER	COAL	1.7	54.0	

MAPID: 06300238000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 17 **QUARTERS/FOOTAGES:**
QUADRANGLE: COAL CITY **LONGITUDE:** -88.33452 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.337618 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 535.0 **LOGGED (FT.):** 41.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
496.0	CARBONDALE	COLCHESTER	COAL	2.5	39.0	

MAPID: 06300239000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 17 **QUARTERS/FOOTAGES:** SW SE SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.328399 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.33139 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 539.0 **LOGGED (FT.):** 45.2 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
496.0	CARBONDALE	COLCHESTER	COAL	2.2	43.0	

MAPID: 06300243000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 17 **QUARTERS/FOOTAGES:** SW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.339237 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.333883 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 45.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
502.0	CARBONDALE	COLCHESTER	COAL	2.0	43.0	

MAPID: 06300246000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 17 **QUARTERS/FOOTAGES:** SW SW NW SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.333857 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.334452 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 36.6 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
507.0	CARBONDALE	COLCHESTER	COAL	3.6	33.0	

MAPID: 06300248000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 17 **QUARTERS/FOOTAGES:** SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.329652 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.334088 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 539.0 **LOGGED (FT.):** 0.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

MAPID: 06300249000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 17 **QUARTERS/FOOTAGES:** NE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.329806 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.341348 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 530.0 **LOGGED (FT.):** 21.1 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
511.0	CARBONDALE	COLCHESTER	COAL	2.1	19.0	

MAPID: 06300252000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 17 **QUARTERS/FOOTAGES:** NW NW NW SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.333913 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.337177 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 535.0 **LOGGED (FT.):** 38.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
499.0	CARBONDALE	COLCHESTER	COAL	2.0	36.0	

MAPID: 06300056000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 18 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.362132 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.337896 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 53.8 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
488.0	CARBONDALE	COLCHESTER	COAL	1.8	52.0	

MAPID: 06300057000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 18 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.362262 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.343319 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 529.0 **LOGGED (FT.):** 35.3 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
496.0	CARBONDALE	COLCHESTER	COAL	2.3	33.0	

MAPID: 06300149000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 18 **QUARTERS/FOOTAGES:** SE SE SW SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.349359 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.330484 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 543.0 **LOGGED (FT.):** 26.8 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
518.0	CARBONDALE	COLCHESTER	COAL	1.8	25.0	

MAPID: 06300058000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 20 **QUARTERS/FOOTAGES:** NW SW NE NE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.32894 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.328194 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 541.0 **LOGGED (FT.):** 46.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
498.0	CARBONDALE	COLCHESTER	COAL	3.0	43.0	

MAPID: 06300146000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 20 **QUARTERS/FOOTAGES:** SE NE NE NE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.325364 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.329182 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 542.0 **LOGGED (FT.):** 36.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
508.0	CARBONDALE	COLCHESTER	COAL	2.9	34.0	

MAPID: 06301793000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 20 **QUARTERS/FOOTAGES:** SE SE NE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.325885 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.324163 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 546.0 **LOGGED (FT.):** 48.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
498.0	CARBONDALE	COLCHESTER	COAL	-	48.0	

MAPID: 06300059000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 21 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.323496 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.324211 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 546.0 **LOGGED (FT.):** 49.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
499.0	CARBONDALE	COLCHESTER	COAL	2.9	47.0	

MAPID: 06300138000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 21 **QUARTERS/FOOTAGES:**
QUADRANGLE: COAL CITY **LONGITUDE:** -88.31511 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.323453 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 544.0 **LOGGED (FT.):** 45.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
501.0	CARBONDALE	COLCHESTER	COAL	2.9	43.0	

MAPID: 06300141000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 21 **QUARTERS/FOOTAGES:** SE NE NE NE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.306217 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.329526 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 32.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
515.0	CARBONDALE	COLCHESTER	COAL	2.9	30.0	

MAPID: 06300142000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 21 **QUARTERS/FOOTAGES:** NE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.310377 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.327176 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 46.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
502.0	CARBONDALE	COLCHESTER	COAL	3.0	43.0	

MAPID: 06300143000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 21 **QUARTERS/FOOTAGES:** SE NW NE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.311584 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.328065 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 39.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
506.0	CARBONDALE	COLCHESTER	COAL	0.5	39.0	

MAPID: 06300144000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 21 **QUARTERS/FOOTAGES:** SE SE NE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.306754 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.324513 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 548.0 **LOGGED (FT.):** 47.1 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
503.0	CARBONDALE	COLCHESTER	COAL	2.1	45.0	

MAPID: 06300060000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 22 **QUARTERS/FOOTAGES:**
QUADRANGLE: COAL CITY **LONGITUDE:** -88.29595 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.323812 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 55.7 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
497.0	CARBONDALE	COLCHESTER	COAL	2.7	53.0	

MAPID: 06300121000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 22 **QUARTERS/FOOTAGES:** NW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.300793 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.327352 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 548.0 **LOGGED (FT.):** 39.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
511.0	CARBONDALE	COLCHESTER	COAL	2.9	37.0	

MAPID: 06300958000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 22 **QUARTERS/FOOTAGES:** SW NW NW NE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.295429 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.329717 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 548.0 **LOGGED (FT.):** 24.3 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
525.0	CARBONDALE	COLCHESTER	COAL	1.3	23.0	

MAPID: 06300062000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 23 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.285164 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.324934 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 39.4 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
513.0	CARBONDALE	COLCHESTER	COAL	2.4	37.0	

MAPID: 06300063000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 23 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.285137 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.323125 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 56.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
497.0	CARBONDALE	COLCHESTER	COAL	3.0	53.0	

MAPID: 06300116000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 23 **QUARTERS/FOOTAGES:** SE SE SW NW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.282152 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.324556 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 43.7 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
509.0	CARBONDALE	COLCHESTER	COAL	2.7	41.0	

MAPID: 06300064000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 24 **QUARTERS/FOOTAGES:**
QUADRANGLE: COAL CITY **LONGITUDE:** -88.257534 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.324688 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 59.3 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
493.0	CARBONDALE	COLCHESTER	COAL	2.3	57.0	

MAPID: 06300112000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 24 **QUARTERS/FOOTAGES:** SW SW SE NE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.252146 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.325253 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 50.1 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
503.0	CARBONDALE	COLCHESTER	COAL	3.1	47.0	

MAPID: 06300113000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 24 **QUARTERS/FOOTAGES:** SE SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.250244 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.31942 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 48.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
505.0	CARBONDALE	COLCHESTER	COAL	3.9	45.0	

MAPID: 06300065000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 25 **QUARTERS/FOOTAGES:** NE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.252521 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.313892 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 38.1 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
515.0	CARBONDALE	COLCHESTER	COAL	3.1	35.0	

MAPID: 06300107000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 25 **QUARTERS/FOOTAGES:** SE SE SW NW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.262602 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.310463 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 46.4 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
507.0	CARBONDALE	COLCHESTER	COAL	3.4	43.0	

MAPID: 06300108000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 25 **QUARTERS/FOOTAGES:** SW SW NW NE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.256725 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.314255 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 43.4 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
510.0	CARBONDALE	COLCHESTER	COAL	3.4	40.0	

MAPID: 06300109000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 25 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.265787 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.31634 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 59.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
494.0	CARBONDALE	COLCHESTER	COAL	3.0	56.0	

MAPID: 06300750000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 25 **QUARTERS/FOOTAGES:** NE NW SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.253604 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.309284 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 40.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
513.0	CARBONDALE	COLCHESTER	COAL	3.0	37.0	

MAPID: 06300067000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 26 **QUARTERS/FOOTAGES:** SW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.281093 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.305939 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 84.6 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
464.0	CARBONDALE	COLCHESTER	COAL	3.6	81.0	

MAPID: 06301795000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 26 **QUARTERS/FOOTAGES:** SE SW NW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.282439 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.31047 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 71.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
477.0	CARBONDALE	COLCHESTER	COAL	3.0	68.0	

MAPID: 06301796000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 28 **QUARTERS/FOOTAGES:** SW SW NW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.32316 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.309675 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 71.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0	CARBONDALE	LOWELL	COAL	1.0	70.0	
474.0			UNCLASSIFIED	32.0	71.0	
442.0	CARBONDALE	COLCHESTER	COAL	1.0	103.0	

MAPID: 06302229000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 28 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.306183 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.302688 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 75.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0	CARBONDALE	COLCHESTER	COAL	5.0	70.0	

MAPID: 06322253000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 28 **QUARTERS/FOOTAGES:** SW NE NE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.308946 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.313556 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 80.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
470.0	CARBONDALE	LOWELL	COAL	5.0	75.0	
465.0			UNCLASSIFIED	10.0	80.0	
455.0	CARBONDALE	COLCHESTER	COAL	-	90.0	

MAPID: 06300069000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 32 **QUARTERS/FOOTAGES:** SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.3287 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.290474 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 120.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
437.0	CARBONDALE	COLCHESTER	COAL	2.5	118.0	

MAPID: 06300070000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 32 **QUARTERS/FOOTAGES:** SW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.338316 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.290248 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 108.1 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
449.0	CARBONDALE	COLCHESTER	COAL	2.1	106.0	

MAPID: 06300100000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 32 **QUARTERS/FOOTAGES:** NW SW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.340743 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.292014 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 84.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
472.0	CARBONDALE	COLCHESTER	COAL	1.5	83.0	

MAPID: 06300101000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 32 **QUARTERS/FOOTAGES:** SW SW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.340702 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.288365 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 114.7 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
518.0	CARBONDALE	HOUCHIN CREEK	COAL	-	37.0	
518.0	CARBONDALE		UNCLASSIFIED	75.0	37.0	
443.0	CARBONDALE	COLCHESTER	COAL	2.7	112.0	

MAPID: 06300103000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 32 **QUARTERS/FOOTAGES:** NE SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.326328 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.292349 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 87.7 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
470.0	CARBONDALE	COLCHESTER	COAL	2.7	85.0	

MAPID: 06300104000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 32 **QUARTERS/FOOTAGES:** SE SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.326266 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.288711 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 112.6 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
520.0	CARBONDALE	HOUCHIN CREEK	COAL	0.5	35.0	
519.5	CARBONDALE		UNCLASSIFIED	74.5	35.5	
445.0	CARBONDALE	COLCHESTER	COAL	2.6	110.0	

MAPID: 06301803000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 33 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.305884 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.28819 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 132.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
430.0	CARBONDALE	COLCHESTER	COAL	2.0	130.0	

MAPID: 06301805000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 33 **QUARTERS/FOOTAGES:** SE NW SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.310744 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.29173 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 99.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
458.0	CARBONDALE	COLCHESTER	COAL	2.0	97.0	

MAPID: 06301807000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 33 **QUARTERS/FOOTAGES:** SW NE SW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.317923 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.291602 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 109.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
448.0	CARBONDALE	COLCHESTER	COAL	2.0	107.0	

MAPID: 06301808000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 33 **QUARTERS/FOOTAGES:** SE NW SW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.320319 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.291559 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 113.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
445.0	CARBONDALE	COLCHESTER	COAL	3.0	110.0	

MAPID: 06300071000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 34 **QUARTERS/FOOTAGES:** SW NE SW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.298772 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.291967 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 118.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
449.0	CARBONDALE	COLCHESTER	COAL	2.5	116.0	

MAPID: 06300751000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 35 **QUARTERS/FOOTAGES:** SE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.271106 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.291649 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 565.0 **LOGGED (FT.):** 114.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
454.0	CARBONDALE	COLCHESTER	COAL	3.0	111.0	

MAPID: 06300752000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 35 **QUARTERS/FOOTAGES:** NE
QUADRANGLE: COAL CITY **LONGITUDE:** -88.271261 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.298884 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 85.1 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
478.0	CARBONDALE	COLCHESTER	COAL	3.1	82.0	

MAPID: 06300794000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 33N 8E **SECTION:** 36 **QUARTERS/FOOTAGES:** NW
QUADRANGLE: COAL CITY **LONGITUDE:** -88.261677 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.299089 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 62.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
496.0	CARBONDALE	COLCHESTER	COAL	3.0	59.0	

MAPID: 06300010000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 5 **QUARTERS/FOOTAGES:** SW SE SW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.572156 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.443659 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 665.0 **LOGGED (FT.):** 153.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Coal Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
514.0	CARBONDALE	COLCHESTER	COAL	2.0	151.0	

MAPID: 06301827000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 5 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.569693 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.443678 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 662.0 **LOGGED (FT.):** 167.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
497.0	CARBONDALE	COLCHESTER	COAL	2.0	165.0	

MAPID: 06370001000C **VERSION:** 1 **PROJECT:** NCRDS
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 5 **QUARTERS/FOOTAGES:** 280' S line, 2510' W line
QUADRANGLE: STAVANGER **LONGITUDE:** -88.569113 **GEOLOGIST:** LOUCHIOS
CONFIDENTIAL: N **LATITUDE:** 41.443541 **DATE COLLECTED:** 0 / 0 / 1827
SURFACE ELEVATION (FT.): 662.0 **LOGGED (FT.):** 210.0 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL 1827 **WELL TYPE:** Coal Test
COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.0			NO RECORD	77.0	0.0	
585.0	CARBONDALE		SHALE	21.0	77.0	
564.0	CARBONDALE		SANDSTONE	43.0	98.0	
521.0	CARBONDALE		SHALE	22.0	141.0	
499.0	CARBONDALE	COLCHESTER	COAL	2.0	163.0	
497.0	CARBONDALE		SHALE	17.0	165.0	
480.0	CARBONDALE		CLAYSTONE	12.0	182.0	
468.0	CARBONDALE		LIMESTONE	6.0	194.0	
462.0	CARBONDALE		SANDSTONE	10.0	200.0	

MAPID: 06301828000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 7 **QUARTERS/FOOTAGES:** NE NE NE
QUADRANGLE: STAVANGER **LONGITUDE:** -88.579485 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.441754 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 673.0 **LOGGED (FT.):** 167.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
508.0	CARBONDALE	COLCHESTER	COAL	2.0	165.0

MAPID: 06370002000C **VERSION:** 1 **PROJECT:** NCRDS
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 7 **QUARTERS/FOOTAGES:** 280' N line, 190' E line
QUADRANGLE: STAVANGER **LONGITUDE:** -88.578973 **GEOLOGIST:** LOUCHIOS
CONFIDENTIAL: N **LATITUDE:** 41.441907 **DATE COLLECTED:** 0 / 0 / 1910
SURFACE ELEVATION (FT.): 682.0 **LOGGED (FT.):** 285.0 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL 1828 **WELL TYPE:** Coal Test
COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
682.0			NO RECORD	85.0	0.0
597.0	CARBONDALE		SHALE	35.0	85.0
562.0	CARBONDALE		GREEN SHALE	5.0	120.0
557.0	CARBONDALE		SHALE	40.0	125.0
517.0	CARBONDALE	COLCHESTER	COAL	2.0	165.0
515.0	CARBONDALE		CORE LOSS	1.0	167.0
514.0	CARBONDALE		SHALE	5.0	168.0
509.0	CARBONDALE		CLAYSTONE	5.0	173.0
504.0	CARBONDALE		SHALE	20.0	178.0
484.0			SANDSTONE	87.0	198.0

MAPID: 06300099000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 8 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.576897 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.434475 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 649.0 **LOGGED (FT.):** 155.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
494.0	CARBONDALE	COLCHESTER	COAL	-	155.0

MAPID: 06300923000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 8 **QUARTERS/FOOTAGES:** NW NW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.575796 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.440888 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 670.0 **LOGGED (FT.):** 169.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
503.0	CARBONDALE	COLCHESTER	COAL	2.0	167.0	

MAPID: 06300098000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 9 **QUARTERS/FOOTAGES:** NE NE NE
QUADRANGLE: STAVANGER **LONGITUDE:** -88.540612 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.442155 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 630.0 **LOGGED (FT.):** 131.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0	CARBONDALE	COLCHESTER	COAL	1.0	130.0	

MAPID: 06301830000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 10 **QUARTERS/FOOTAGES:** SW NW SE
QUADRANGLE: STAVANGER **LONGITUDE:** -88.528373 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.433153 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 610.0 **LOGGED (FT.):** 95.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
517.0	CARBONDALE	COLCHESTER	COAL	2.5	93.0	

MAPID: 06300011000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 13 **QUARTERS/FOOTAGES:** SE SE NE
QUADRANGLE: LISBON **LONGITUDE:** -88.481969 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.422403 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 70.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
515.0	CARBONDALE	COLCHESTER	COAL	-	70.0	

MAPID: 06300096000C **VERSION:** 1 **PROJECT:** NCRDS87
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 13 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: LISBON **LONGITUDE:** -88.499141 **GEOLOGIST:** WEIBEL
CONFIDENTIAL: N **LATITUDE:** 41.427819 **DATE COLLECTED:** 11 / 3 / 1905
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 114.0 **LOG TYPE:** Drillers Log
SOURCE: C.J. ANDERSON **WELL TYPE:** Water Well
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
600.0			UNCONSOLIDATED	75.0	0.0
525.0	CARBONDALE		UNCLASSIFIED	19.0	75.0
506.0	CARBONDALE	COLCHESTER	COAL	2.5	94.0
503.5	SPOON		UNCLASSIFIED	3.5	96.5
500.0	SPOON		UNDERCLAY	5.0	100.0
495.0	SPOON		UNCLASSIFIED	9.0	105.0

MAPID: 06300096000C **VERSION:** 2 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 13 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: LISBON **LONGITUDE:** -88.499141 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.427819 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 96.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
506.0	CARBONDALE	COLCHESTER	COAL	2.5	94.0

MAPID: 06300012000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 14 **QUARTERS/FOOTAGES:** NE NW NW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.516137 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.42776 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 605.0 **LOGGED (FT.):** 95.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
512.0	CARBONDALE	COLCHESTER	COAL	2.5	93.0

MAPID: 06300095000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 15 **QUARTERS/FOOTAGES:** NW NW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.536656 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.426737 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 604.0 **LOGGED (FT.):** 95.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
511.0	CARBONDALE	COLCHESTER	COAL	2.5	93.0	

MAPID: 06300015000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 17 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.576559 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.419864 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 643.0 **LOGGED (FT.):** 157.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
488.0	CARBONDALE	COLCHESTER	COAL	2.5	155.0	

MAPID: 06301279000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 17 **QUARTERS/FOOTAGES:** NW SW NW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.576653 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.423512 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 645.0 **LOGGED (FT.):** 171.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
476.0	CARBONDALE	COLCHESTER	COAL	2.0	169.0	

MAPID: 06301838000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 17 **QUARTERS/FOOTAGES:** NE NE SE
QUADRANGLE: STAVANGER **LONGITUDE:** -88.559533 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.42014 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 630.0 **LOGGED (FT.):** 150.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
482.0	CARBONDALE	COLCHESTER	COAL	2.0	148.0	

MAPID: 06300093000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 18 **QUARTERS/FOOTAGES:** SW NW SW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.594068 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.417691 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 665.0 **LOGGED (FT.):** 185.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
481.0	CARBONDALE	COLCHESTER	COAL	1.5	184.0	

MAPID: 06301839000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 18 **QUARTERS/FOOTAGES:** NW NW NE
QUADRANGLE: STAVANGER **LONGITUDE:** -88.586425 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.426962 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 665.0 **LOGGED (FT.):** 179.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
487.0	CARBONDALE	COLCHESTER	COAL	1.0	178.0	

MAPID: 06301840000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 18 **QUARTERS/FOOTAGES:** SW NE NW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.591213 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.425035 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 680.0 **LOGGED (FT.):** 178.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
503.0	CARBONDALE	COLCHESTER	COAL	1.0	177.0	

MAPID: 06300016000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 19 **QUARTERS/FOOTAGES:** NE NE
QUADRANGLE: STAVANGER **LONGITUDE:** -88.579982 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.411607 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 646.0 **LOGGED (FT.):** 167.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
481.0	CARBONDALE	COLCHESTER	COAL	2.0	165.0	

MAPID: 06300017000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 19 **QUARTERS/FOOTAGES:** NW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.590549 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.409608 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 660.0 **LOGGED (FT.):** 188.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
473.0	CARBONDALE	COLCHESTER	COAL	1.0	187.0	

MAPID: 06301843000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 22 **QUARTERS/FOOTAGES:** SW NW SW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.537215 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.403944 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 131.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
461.0	CARBONDALE	COLCHESTER	COAL	2.5	129.0	

MAPID: 06302081000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 22 **QUARTERS/FOOTAGES:** NE SW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.531209 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.404933 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 126.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
461.0	CARBONDALE	COLCHESTER	COAL	2.0	124.0	

MAPID: 06370000000C **VERSION:** 1 **PROJECT:** NCRDS
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 22 **QUARTERS/FOOTAGES:** 1590' S line, 290' W line
QUADRANGLE: STAVANGER **LONGITUDE:** -88.537353 **GEOLOGIST:** LOUCHIOS
CONFIDENTIAL: N **LATITUDE:** 41.40376 **DATE COLLECTED:** 0 / 0 / 1901
SURFACE ELEVATION (FT.): 593.0 **LOGGED (FT.):** 248.0 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL 1843 **WELL TYPE:** Coal Test
COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
593.0			NO RECORD	70.0	0.0
523.0	CARBONDALE		SHALE	59.0	70.0
464.0	CARBONDALE	COLCHESTER	COAL	2.5	129.0
461.5			SHALE	30.5	131.5
431.0			LIMESTONE	52.0	162.0
379.0			SANDSTONE	34.0	214.0

MAPID: 06300018000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** SW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.514221 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.403281 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 114.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
478.0	CARBONDALE	COLCHESTER	COAL	2.5	112.0

MAPID: 06300019000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** SE SW NW NW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.517488 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.410951 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 107.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
480.0	CARBONDALE	COLCHESTER	COAL	2.5	105.0

MAPID: 06300091000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** NE NE SE
QUADRANGLE: STAVANGER **LONGITUDE:** -88.500895 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.406014 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 583.0 **LOGGED (FT.):** 102.7 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
483.0	CARBONDALE	COLCHESTER	COAL	2.7	100.0	

MAPID: 06300092000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** NE SE SE NE
QUADRANGLE: STAVANGER **LONGITUDE:** -88.500345 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.408285 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 585.0 **LOGGED (FT.):** 100.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
487.0	CARBONDALE	COLCHESTER	COAL	2.0	98.0	

MAPID: 06301285000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 23 **QUARTERS/FOOTAGES:** SW NE
QUADRANGLE: STAVANGER **LONGITUDE:** -88.50706 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.408723 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 584.0 **LOGGED (FT.):** 100.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
486.0	CARBONDALE	COLCHESTER	COAL	2.0	98.0	

MAPID: 06301849000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 25 **QUARTERS/FOOTAGES:** NE NE NE
QUADRANGLE: LISBON **LONGITUDE:** -88.481317 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.398811 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 574.0 **LOGGED (FT.):** 108.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
469.0	CARBONDALE	COLCHESTER	COAL	3.0	105.0	

MAPID: 0630185000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 25 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: LISBON **LONGITUDE:** -88.497975 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.38606 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 581.0 **LOGGED (FT.):** 121.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
462.0	CARBONDALE	COLCHESTER	COAL	2.0	119.0	

MAPID: 0630002000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 26 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.517533 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.391482 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 132.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
460.0	CARBONDALE	COLCHESTER	COAL	2.0	130.0	

MAPID: 06301287000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 26 **QUARTERS/FOOTAGES:** SW NW SW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.517478 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.389664 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 130.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
465.0	CARBONDALE	COLCHESTER	COAL	-	130.0	

MAPID: 06300915000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 28 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: STAVANGER **LONGITUDE:** -88.546684 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.391145 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 605.0 **LOGGED (FT.):** 153.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
455.0	CARBONDALE	COLCHESTER	COAL	3.0	150.0	

MAPID: 06301854000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 28 **QUARTERS/FOOTAGES:** NE NE NW
QUADRANGLE: STAVANGER **LONGITUDE:** -88.549326 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.398376 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 600.0 **LOGGED (FT.):** 137.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
465.0	CARBONDALE	COLCHESTER	COAL	2.5	135.0

MAPID: 06370003000C **VERSION:** 1 **PROJECT:** NCRDS
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 28 **QUARTERS/FOOTAGES:** 300' N line, 2520' W line
QUADRANGLE: STAVANGER **LONGITUDE:** -88.548713 **GEOLOGIST:** LOUCHIOS
CONFIDENTIAL: N **LATITUDE:** 41.398462 **DATE COLLECTED:** 0 / 0 / 1901
SURFACE ELEVATION (FT.): 595.0 **LOGGED (FT.):** 291.0 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL 1854 **WELL TYPE:** Coal Test
COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
595.0			NO RECORD	84.0	0.0
511.0	CARBONDALE		SHALE	51.0	84.0
460.0	CARBONDALE	COLCHESTER	COAL	2.5	135.0
457.5	CARBONDALE		SHALE	7.5	137.5
450.0	CARBONDALE		CLAYSTONE	3.0	145.0
447.0			LIMESTONE	70.0	148.0
377.0			SANDSTONE	73.0	218.0

MAPID: 06301449000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 29 **QUARTERS/FOOTAGES:** SE SE NE
QUADRANGLE: STAVANGER **LONGITUDE:** -88.558949 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.392838 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 605.0 **LOGGED (FT.):** 135.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
535.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	70.0
534.0	CARBONDALE		UNCLASSIFIED	64.0	71.0
470.0	CARBONDALE	COLCHESTER	COAL	-	135.0

MAPID: 06301867000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 35 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: SENECA **LONGITUDE:** -88.500097 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.371396 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 556.0 **LOGGED (FT.):** 107.6 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
451.0	CARBONDALE	COLCHESTER	COAL	2.6	105.0	

MAPID: 06301871000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 6E **SECTION:** 36 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: MORRIS **LONGITUDE:** -88.480705 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.371521 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 88.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
474.0	CARBONDALE	COLCHESTER	COAL	2.0	86.0	

MAPID: 06300001000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 17 **QUARTERS/FOOTAGES:** SW NW SW
QUADRANGLE: LISBON **LONGITUDE:** -88.460442 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.419382 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 73.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
505.0	CARBONDALE	COLCHESTER	COAL	3.0	70.0	

MAPID: 06300002000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 19 **QUARTERS/FOOTAGES:** NW NE
QUADRANGLE: LISBON **LONGITUDE:** -88.468592 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.412846 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 69.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
503.0	CARBONDALE	COLCHESTER	COAL	2.0	67.0	

MAPID: 06301914000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 19 **QUARTERS/FOOTAGES:** NE NE NW
QUADRANGLE: LISBON **LONGITUDE:** -88.472169 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.413679 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 72.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
505.0	CARBONDALE	COLCHESTER	COAL	2.0	70.0	

MAPID: 06301915000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 20 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: LISBON **LONGITUDE:** -88.460185 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.406658 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 573.0 **LOGGED (FT.):** 76.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
499.0	CARBONDALE	COLCHESTER	COAL	2.0	74.0	

MAPID: 06301917000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 20 **QUARTERS/FOOTAGES:** NE SW NE
QUADRANGLE: LISBON **LONGITUDE:** -88.448174 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.410571 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 72.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
499.0	CARBONDALE	COLCHESTER	COAL	1.0	71.0	

MAPID: 06300004000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 21 **QUARTERS/FOOTAGES:** SE NE SE
QUADRANGLE: LISBON **LONGITUDE:** -88.423953 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.405642 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 55.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0	CARBONDALE	COLCHESTER	COAL	-	55.0	

MAPID: 06301931000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 27 **QUARTERS/FOOTAGES:** NW SW NW
QUADRANGLE: LISBON **LONGITUDE:** -88.421301 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.396613 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 64.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
489.0	CARBONDALE	COLCHESTER	COAL	3.0	61.0	

MAPID: 06301934000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 28 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: LISBON **LONGITUDE:** -88.433153 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.387277 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 52.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0	CARBONDALE	COLCHESTER	COAL	2.0	50.0	

MAPID: 06301935000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 28 **QUARTERS/FOOTAGES:** SE NE NE
QUADRANGLE: LISBON **LONGITUDE:** -88.42377 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.398375 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 551.0 **LOGGED (FT.):** 53.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
498.0	CARBONDALE	COLCHESTER	COAL	-	53.0	

MAPID: 06301937000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 28 **QUARTERS/FOOTAGES:** NE NE NE
QUADRANGLE: LISBON **LONGITUDE:** -88.423819 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.400192 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 551.0 **LOGGED (FT.):** 40.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
513.0	CARBONDALE	COLCHESTER	COAL	2.0	38.0	

MAPID: 06301938000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 28 **QUARTERS/FOOTAGES:** NW SW NW
QUADRANGLE: LISBON **LONGITUDE:** -88.440642 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.396186 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 54.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
503.0	CARBONDALE	COLCHESTER	COAL	2.0	52.0

MAPID: 06300005000C **VERSION:** 1 **PROJECT:** NCRDS87
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 30 **QUARTERS/FOOTAGES:** SW SW SE
QUADRANGLE: LISBON **LONGITUDE:** -88.469227 **GEOLOGIST:** WEIBEL
CONFIDENTIAL: N **LATITUDE:** 41.386479 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 110.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Unsuccessful or Unknown Results
COMMENT: LOCATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
550.0			UNCONSOLIDATED	26.0	0.0
524.0	CARBONDALE		UNCLASSIFIED	24.0	26.0
500.0	CARBONDALE		SHALE	20.5	50.0
479.5	CARBONDALE	COLCHESTER	COAL	2.5	70.5
477.0	SPOON		UNCLASSIFIED	8.0	73.0
469.0	SPOON		SHALE	10.0	81.0
459.0	SPOON		UNCLASSIFIED	19.0	91.0

MAPID: 06300005000C **VERSION:** 2 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 30 **QUARTERS/FOOTAGES:** SW SW SE
QUADRANGLE: LISBON **LONGITUDE:** -88.469227 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.386479 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 72.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
490.0	CARBONDALE	COLCHESTER	COAL	2.5	70.0

MAPID: 06301310000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 30 **QUARTERS/FOOTAGES:** SW NW SW NW
QUADRANGLE: LISBON **LONGITUDE:** -88.479426 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.394921 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 560.0 **LOGGED (FT.):** 71.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
490.0	CARBONDALE	COLCHESTER	COAL	1.0	70.0	

MAPID: 06301941000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 30 **QUARTERS/FOOTAGES:** NW SE SW
QUADRANGLE: LISBON **LONGITUDE:** -88.473979 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.388215 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 562.0 **LOGGED (FT.):** 73.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
492.0	CARBONDALE	COLCHESTER	COAL	3.0	70.0	

MAPID: 06300007000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 31 **QUARTERS/FOOTAGES:** NE NE NE
QUADRANGLE: LISBON **LONGITUDE:** -88.462124 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.384769 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 74.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
483.0	CARBONDALE	COLCHESTER	COAL	2.0	72.0	

MAPID: 06300930000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 31 **QUARTERS/FOOTAGES:** SW SW SE
QUADRANGLE: MORRIS **LONGITUDE:** -88.468895 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.371779 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 532.0 **LOGGED (FT.):** 83.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
451.0	CARBONDALE	COLCHESTER	COAL	2.0	81.0	

MAPID: 06300931000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 31 **QUARTERS/FOOTAGES:** SW NW NW SE
QUADRANGLE: LISBON **LONGITUDE:** -88.469599 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.376823 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 557.0 **LOGGED (FT.):** 20.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
539.0	CARBONDALE	COLCHESTER	COAL	2.0	18.0	

MAPID: 06301517000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 31 **QUARTERS/FOOTAGES:** SE SW SW
QUADRANGLE: MORRIS **LONGITUDE:** -88.475959 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.371621 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 558.0 **LOGGED (FT.):** 81.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
478.0	CARBONDALE	COLCHESTER	COAL	1.0	80.0	

MAPID: 06300008000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 32 **QUARTERS/FOOTAGES:** NE NE NE
QUADRANGLE: LISBON **LONGITUDE:** -88.442789 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.385249 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 50.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
496.0	CARBONDALE	COLCHESTER	COAL	1.0	49.0	

MAPID: 06301944000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 32 **QUARTERS/FOOTAGES:** SW SE SW
QUADRANGLE: MORRIS **LONGITUDE:** -88.454628 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.372133 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 95.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
452.0	CARBONDALE	COLCHESTER	COAL	2.0	93.0	

MAPID: 06301946000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 32 **QUARTERS/FOOTAGES:** NE SW SE
QUADRANGLE: MORRIS **LONGITUDE:** -88.447426 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.374163 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 542.0 **LOGGED (FT.):** 56.7 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
488.0	CARBONDALE	COLCHESTER	COAL	2.7	54.0	

MAPID: 06301947000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 32 **QUARTERS/FOOTAGES:** NW NE NW
QUADRANGLE: LISBON **LONGITUDE:** -88.454894 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.384941 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 84.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
471.0	CARBONDALE	COLCHESTER	COAL	-	84.0	

MAPID: 06390012000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 32 **QUARTERS/FOOTAGES:** 680' N line, 1320' E line of SE
QUADRANGLE: LISBON **LONGITUDE:** -88.446271 **GEOLOGIST:** J.MCBETH
CONFIDENTIAL: N **LATITUDE:** 41.376892 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 548.0 **LOGGED (FT.):** 79.3 **LOG TYPE:** Company map
SOURCE: MIDLAND COAL CO. 8A49 **WELL TYPE:** Coal Test
COMMENT: MORE DRILL HOLES AVAIL. ON MAP-CASE 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
548.0			UNCLASSIFIED	76.0	0.0	
472.0	CARBONDALE	COLCHESTER	COAL	3.3	76.0	

MAPID: 06300037000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 33 **QUARTERS/FOOTAGES:** SE NE NE
QUADRANGLE: LISBON **LONGITUDE:** -88.423394 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.383859 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 540.0 **LOGGED (FT.):** 39.5 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
503.0	CARBONDALE	COLCHESTER	COAL	2.5	37.0	

MAPID: 06301311000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 33 **QUARTERS/FOOTAGES:** NW NE NE SE
QUADRANGLE: LISBON **LONGITUDE:** -88.423883 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.378875 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 530.0 **LOGGED (FT.):** 54.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
479.0	CARBONDALE	COLCHESTER	COAL	3.0	51.0	

MAPID: 06301312000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 33 **QUARTERS/FOOTAGES:** SE SE SE
QUADRANGLE: MORRIS **LONGITUDE:** -88.423137 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.373014 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 520.0 **LOGGED (FT.):** 25.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
497.0	CARBONDALE	COLCHESTER	COAL	2.0	23.0	

MAPID: 06301950000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 33 **QUARTERS/FOOTAGES:** SE NE SE
QUADRANGLE: LISBON **LONGITUDE:** -88.423223 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.37663 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 530.0 **LOGGED (FT.):** 34.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
498.0	CARBONDALE	COLCHESTER	COAL	2.0	32.0	

MAPID: 06390013000C **VERSION:** 1 **PROJECT:** NCRDS99
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 33 **QUARTERS/FOOTAGES:** 530' N line, 1580' E line of SE
QUADRANGLE: LISBON **LONGITUDE:** -88.427817 **GEOLOGIST:** J.MCBETH
CONFIDENTIAL: N **LATITUDE:** 41.377768 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 505.5 **LOGGED (FT.):** 30.5 **LOG TYPE:** Company map
SOURCE: MIDLAND COAL CO. 528 **WELL TYPE:** Coal Test
COMMENT: MORE DRILL HOLES AVAIL ON MAP-CASE 6

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
505.5			UNCLASSIFIED	28.0	0.0	
477.5	CARBONDALE	COLCHESTER	COAL	2.5	28.0	

MAPID: 06301314000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 34 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: LISBON **LONGITUDE:** -88.421015 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.385721 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 545.0 **LOGGED (FT.):** 40.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
507.0	CARBONDALE	COLCHESTER	COAL	2.0	38.0	

MAPID: 06301952000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 34 **QUARTERS/FOOTAGES:** NW SW SW
QUADRANGLE: MORRIS **LONGITUDE:** -88.420761 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.374882 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 525.0 **LOGGED (FT.):** 24.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
503.0	CARBONDALE	COLCHESTER	COAL	2.9	22.0	

MAPID: 06301955000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 34 **QUARTERS/FOOTAGES:** SE SE NE
QUADRANGLE: LISBON **LONGITUDE:** -88.40396 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.380692 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 520.0 **LOGGED (FT.):** 25.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
497.0	CARBONDALE	COLCHESTER	COAL	2.0	23.0	

MAPID: 06300009000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 35 **QUARTERS/FOOTAGES:** NE SE SW
QUADRANGLE: LISBON **LONGITUDE:** -88.394239 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.375505 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 508.0 **LOGGED (FT.):** 35.9 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0	CARBONDALE	COLCHESTER	COAL	2.9	33.0	

MAPID: 06301315000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 35 **QUARTERS/FOOTAGES:** SE SW NW
QUADRANGLE: LISBON **LONGITUDE:** -88.399136 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.3808 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 525.0 **LOGGED (FT.):** 12.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
513.0	CARBONDALE	COLCHESTER	COAL	-	12.0	

MAPID: 06301962000C **VERSION:** 1 **PROJECT:** RJJ-NCILL
COUNTY: GRUNDY **TWP/RNG:** 34N 7E **SECTION:** 35 **QUARTERS/FOOTAGES:** NE NW NE
QUADRANGLE: LISBON **LONGITUDE:** -88.389574 **GEOLOGIST:** JACOBSON,R
CONFIDENTIAL: N **LATITUDE:** 41.386417 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 523.0 **LOGGED (FT.):** 26.0 **LOG TYPE:** Drillers Log
SOURCE: **WELL TYPE:** Water Well
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0	CARBONDALE	COLCHESTER	COAL	3.0	23.0	