

06300001000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 17 SNNWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 575.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 73.00
 SOURCE: GOOD LOG

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)	-----					
575.00			UNCLASSIFIED	70.00	0.00	
505.00	CARBONDALE	COLCHESTER	COAL	3.00	70.00	

06300002000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 19 NWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 570.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 69.00
 SOURCE: GOOD LOG

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)	-----					
570.00			UNCLASSIFIED	67.00	0.00	
503.00	CARBONDALE	COLCHESTER	COAL	2.00	67.00	

06300004000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 21 SENESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 55.00
 SOURCE: GOOD LOG

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)	-----					
555.00			UNCLASSIFIED	55.00	0.00	
500.00	CARBONDALE	COLCHESTER	COAL		55.00	

06300005000C PROJECT: NCRDS87 QUADRANGLE: LISBON * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 34N - R 7E SECTION: 30 SWSWE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: WEIBEL DATE COLLECTED:
 Drillers Log Unsuccessful or Unknown Results LOGGED (FT.): 110.00
 SOURCE: LOCATION IMPRECISE

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)	-----					
550.00			UNCONSOLIDATED	26.00	0.00	
524.00	CARBONDALE		UNCLASSIFIED	24.00	26.00	
500.00	CARBONDALE		SHALE	20.50	50.00	
479.50	CARBONDALE	COLCHESTER	COAL	2.50	70.50	
477.00	SPOON		UNCLASSIFIED	8.00	73.00	
469.00	SPOON		SHALE	10.00	81.00	
459.00	SPOON		UNCLASSIFIED	19.00	91.00	

06300005000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 34N - R 7E SECTION: 30 SWSWE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 560.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 72.50
 SOURCE: GOOD LOG

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)	-----					

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
560.00			UNCLASSIFIED	70.00	0.00	
490.00	CARBONDALE	COLCHESTER	COAL	2.50	70.00	

06300007000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
COUNTY: GRUNDY 34N - R 7E SECTION: 31 NENENE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 74.00
SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
555.00			UNCLASSIFIED	72.00	0.00	
483.00	CARBONDALE	COLCHESTER	COAL	2.00	72.00	

06300008000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
COUNTY: GRUNDY 34N - R 7E SECTION: 32 NENENE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 545.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 50.00
SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
545.00			UNCLASSIFIED	49.00	0.00	
496.00	CARBONDALE	COLCHESTER	COAL	1.00	49.00	

06300009000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
COUNTY: GRUNDY 34N - R 7E SECTION: 35 NESESW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 508.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 35.90
SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
508.00			UNCLASSIFIED	33.00	0.00	
475.00	CARBONDALE	COLCHESTER	COAL	2.90	33.00	

06300010000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
COUNTY: GRUNDY 34N - R 6E SECTION: 5 SWSSEW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 665.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 153.00
SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
665.00			UNCLASSIFIED	151.00	0.00	
514.00	CARBONDALE	COLCHESTER	COAL	2.00	151.00	

06300011000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
COUNTY: GRUNDY 34N - R 6E SECTION: 13 SESENE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 585.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:

Drillers Log Water Well LOGGED (FT.): 70.00
SOURCE: GOOD LOG

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

585.00			UNCLASSIFIED	70.00	0.00	
515.00	CARBONDALE	COLCHESTER	COAL		70.00	

06300012000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
COUNTY: GRUNDY 34N - R 6E SECTION: 14 NENWNW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 605.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 95.50
SOURCE: GOOD LOG

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

605.00			UNCLASSIFIED	93.00	0.00	
512.00	CARBONDALE	COLCHESTER	COAL	2.50	93.00	

06300015000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
COUNTY: GRUNDY 34N - R 6E SECTION: 17 NWNWSW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 643.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 157.50
SOURCE: GOOD LOG

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

643.00			UNCLASSIFIED	155.00	0.00	
488.00	CARBONDALE	COLCHESTER	COAL	2.50	155.00	

06300016000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
COUNTY: GRUNDY 34N - R 6E SECTION: 19 NENE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 646.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 167.00
SOURCE: GOOD LOG

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

646.00			UNCLASSIFIED	165.00	0.00	
481.00	CARBONDALE	COLCHESTER	COAL	2.00	165.00	

06300017000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
COUNTY: GRUNDY 34N - R 6E SECTION: 19 NW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 660.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 188.00
SOURCE: GOOD LOG

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

660.00			UNCLASSIFIED	187.00	0.00	
473.00	CARBONDALE	COLCHESTER	COAL	1.00	187.00	

06300018000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 23 SW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 590.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 114.50
 SOURCE: GOOD LOG

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)	-----					
590.00			UNCLASSIFIED	112.00	0.00	
478.00	CARBONDALE	COLCHESTER	COAL	2.50	112.00	

06300019000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 23 SESWNNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 585.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 107.50
 SOURCE: GOOD LOG

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)	-----					
585.00			UNCLASSIFIED	105.00	0.00	
480.00	CARBONDALE	COLCHESTER	COAL	2.50	105.00	

06300020000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 26 NWNWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 590.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 132.00
 SOURCE: GOOD LOG

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)	-----					
590.00			UNCLASSIFIED	130.00	0.00	
460.00	CARBONDALE	COLCHESTER	COAL	2.00	130.00	

06300021000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 3 NWNENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 595.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 176.00
 SOURCE: GOOD LOG

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)	-----					
595.00			UNCLASSIFIED	174.00	0.00	
421.00	CARBONDALE	COLCHESTER	COAL	2.00	174.00	

06300021000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 3 NWNENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 595.0 GEOLOGIST: TREWORGY,J DATE COLLECTED: 9 /28/1914
 Drillers Log Water Well LOGGED (FT.): 330.00
 SOURCE: ANDREW JOHNSON

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)	-----					
595.00			UNCONSOLIDATED	95.00	0.00	
500.00			ROCK	79.00	95.00	

421.00 CARBONDALE COLCHESTER COAL 2.00 174.00
 419.00 ROCK 154.00 176.00

06300022000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 9 NWNWE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 590.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 138.00
 SOURCE: GOOD LOG

				THICKNESS (FT.)		
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
590.00			UNCLASSIFIED	136.00	0.00	
454.00	CARBONDALE	COLCHESTER	COAL	2.00	136.00	

06300022000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 9 NWNWE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 560.0 GEOLOGIST: TREWORGY,J DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 380.00
 SOURCE: C. J. ANDERSON

				THICKNESS (FT.)		
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
560.00			UNKNOWN	136.00	0.00	
424.00	CARBONDALE	COLCHESTER	COAL	2.00	136.00	
422.00			ROCK	242.00	138.00	

06300023000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 9 NWNESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 536.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 100.00
 SOURCE: GOOD LOG

				THICKNESS (FT.)		
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
536.00			UNCLASSIFIED	98.00	0.00	
438.00	CARBONDALE	COLCHESTER	COAL	2.00	98.00	

06300023000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 9 NWNESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 520.0 GEOLOGIST: TREWORGY,J DATE COLLECTED: 8 / 2/1906
 Drillers Log Water Well LOGGED (FT.): 290.00
 SOURCE: C. J. ANDERSON

				THICKNESS (FT.)		
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
520.00			UNCONSOLIDATED	50.00	0.00	
470.00			ROCK	48.00	50.00	
422.00	CARBONDALE	COLCHESTER	COAL	2.00	98.00	
420.00			ROCK	190.00	100.00	

06300024000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 15 NENESWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 500.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:

Drillers Log Water Well LOGGED (FT.): 74.00
 SOURCE: GOOD LOG

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

500.00			UNCLASSIFIED	72.00	0.00	
428.00	CARBONDALE	COLCHESTER	COAL	2.00	72.00	

06300024000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 15 NENESWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 500.0 GEOLOGIST: TREWORGY,J DATE COLLECTED: 0 / 0/1916
 Drillers Log Water Well LOGGED (FT.): 291.00
 SOURCE: C. J. ANDERSON

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

500.00			UNCONSOLIDATED	2.00	0.00	
498.00			ROCK	70.00	2.00	
428.00	CARBONDALE	COLCHESTER	COAL	2.00	72.00	
426.00			ROCK	217.00	74.00	

06300025000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 16 SESWSNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 500.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 80.00
 SOURCE: GOOD LOG

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

500.00			UNCLASSIFIED	78.00	0.00	
422.00	CARBONDALE	COLCHESTER	COAL	2.00	78.00	

06300025000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 16 SESWSNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 501.0 GEOLOGIST: TREWORGY,J DATE COLLECTED: 8 /25/1903
 Drillers Log Water Well LOGGED (FT.): 169.00
 SOURCE: CHAS. DANIELSON

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

501.00			UNCONSOLIDATED	28.00	0.00	
473.00			ROCK	50.00	28.00	
423.00	CARBONDALE	COLCHESTER	COAL	2.00	78.00	
421.00			ROCK	89.00	80.00	

06300026000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 21 NWNENW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 500.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 92.50
 SOURCE: GOOD LOG

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

500.00			UNCLASSIFIED	90.00	0.00	
410.00	CARBONDALE	COLCHESTER	COAL	2.50	90.00	

06300026000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 21 NWNENW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 500.0 GEOLOGIST: TREWORGY, J DATE COLLECTED: 0 / 0/1916
 Drillers Log Water Well LOGGED (FT.): 285.75
 SOURCE: C. J. ANDERSON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.00			UNKNOWN	32.00	0.00	
468.00			ROCK	58.50	32.00	
409.50	CARBONDALE	COLCHESTER	COAL	2.50	90.50	
407.00			ROCK	192.75	93.00	

06300027000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 22 NWNWE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 595.0 GEOLOGIST: JACOBSON, R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 178.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
595.00			UNCLASSIFIED	131.00	0.00	
464.00	CARBONDALE	HOUCHIN CREEK	COAL		131.00	
464.00	CARBONDALE		UNCLASSIFIED	47.00	131.00	
417.00	CARBONDALE	COLCHESTER	COAL		178.00	

06300027000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 22 NWNWE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 595.0 GEOLOGIST: TREWORGY, J DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 374.00
 SOURCE: CRAFT FARM

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
595.00			UNKNOWN	0.00	0.00	

06300028000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 29 SESESW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 606.0 GEOLOGIST: JACOBSON, R DATE COLLECTED:
 Drillers Log Oil and Gas Test LOGGED (FT.): 183.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
606.00			UNCLASSIFIED	180.00	0.00	
426.00	CARBONDALE	COLCHESTER	COAL	3.00	180.00	

06300028000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 29 SESESW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 596.0 GEOLOGIST: TREWORGY, J DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 1510.00
 SOURCE: J. A. M. ROBINSON, ENGR.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
596.00			UNCONSOLIDATED	71.00	0.00	
525.00			ROCK	72.00	71.00	
453.00			SHALE	37.00	143.00	
416.00	CARBONDALE	COLCHESTER	COAL	3.00	180.00	
413.00			ROCK	1327.00	183.00	

06300028000C PROJECT: NCRDS87 QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
COUNTY: GRUNDY 33N - R 6E SECTION: 29 SESESW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 604.0 GEOLOGIST: WEIBEL DATE COLLECTED:
Drillers Log Unsuccessful or Unknown Results LOGGED (FT.): 224.00
SOURCE: E.I. DUPONT DE NEMOURS & CO.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
604.00			UNCONSOLIDATED	71.00	0.00	
533.00	CARBONDALE		SANDSTONE	6.00	71.00	
527.00	CARBONDALE		SHALE	59.00	77.00	
468.00	CARBONDALE		SANDSTONE	7.00	136.00	
461.00	CARBONDALE		SHALE	37.00	143.00	
424.00	CARBONDALE	COLCHESTER	COAL	3.00	180.00	
421.00	SPOON		SHALE	41.00	183.00	

06300029000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
COUNTY: GRUNDY 33N - R 7E SECTION: 3 SENENWNW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 515.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 24.60
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
515.00			UNCLASSIFIED	22.00	0.00	
493.00	CARBONDALE	COLCHESTER	COAL	2.60	22.00	

06300030000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
COUNTY: GRUNDY 33N - R 7E SECTION: 4 NENW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 520.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 28.00
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
520.00			UNCLASSIFIED	26.00	0.00	
494.00	CARBONDALE	COLCHESTER	COAL	2.00	26.00	

06300031000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
COUNTY: GRUNDY 33N - R 7E SECTION: 4 NENWSE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 510.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 65.50
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
510.00			UNCLASSIFIED	63.00	0.00	
447.00	CARBONDALE	COLCHESTER	COAL	2.50	63.00	

06300032000C PROJECT: NCRDS87 QUADRANGLE: MORRIS * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 7E SECTION: 10 NWSWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 496.0 GEOLOGIST: WEIBEL DATE COLLECTED: 3 / 0/1933
 Drillers Log Coal Test LOGGED (FT.): 46.17
 SOURCE: CENTRAL INDIANA COAL CO. LOCATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
496.00			UNCONSOLIDATED	31.33	0.00	
464.70	CARBONDALE		SHALE	10.67	31.30	
454.00	CARBONDALE	COLCHESTER	COAL	2.67	42.00	
451.30	SPOON		UNDERCLAY	1.50	44.70	

06300032000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 7E SECTION: 10 NWSWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 496.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 44.70
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
496.00			UNCLASSIFIED	42.00	0.00	
454.00	CARBONDALE	COLCHESTER	COAL	2.70	42.00	

06300035000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 25 NWSWN
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 103.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.00			UNCLASSIFIED	100.00	0.00	
450.00	CARBONDALE	COLCHESTER	COAL	3.00	100.00	

06300036000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 33 SESESESW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 570.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 206.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.00			UNCLASSIFIED	85.00	0.00	
485.00	CARBONDALE	HOUCHIN CREEK	COAL		85.00	
485.00	CARBONDALE		UNCLASSIFIED	117.00	85.00	
368.00	CARBONDALE	COLCHESTER	COAL	4.00	202.00	

06300037000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 33 SENENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 540.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 39.50

SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
540.00			UNCLASSIFIED	37.00	0.00	
503.00	CARBONDALE	COLCHESTER	COAL	2.50	37.00	

06300038000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 9 SESESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 522.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 19.10
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
522.00			UNCLASSIFIED	16.00	0.00	
506.00	CARBONDALE	COLCHESTER	COAL	3.10	16.00	

06300040000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 9 SWSWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 520.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 10.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
520.00			UNCLASSIFIED	8.00	0.00	
512.00	CARBONDALE	COLCHESTER	COAL	2.50	8.00	

06300049000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 16 SWSWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 545.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 46.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
545.00			UNCLASSIFIED	43.00	0.00	
502.00	CARBONDALE	COLCHESTER	COAL	3.00	43.00	

06300053000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 17 SWSWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 536.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 55.70
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
536.00			UNCLASSIFIED	54.00	0.00	
482.00	CARBONDALE	COLCHESTER	COAL	1.70	54.00	

06300056000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 18 SWSWNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 540.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 53.80
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
540.00			UNCLASSIFIED	52.00	0.00	
488.00	CARBONDALE	COLCHESTER	COAL	1.80	52.00	

06300057000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 18 NWNWNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 529.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 35.30
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
529.00			UNCLASSIFIED	33.00	0.00	
496.00	CARBONDALE	COLCHESTER	COAL	2.30	33.00	

06300058000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 20 NWSWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 541.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 46.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
541.00			UNCLASSIFIED	43.00	0.00	
498.00	CARBONDALE	COLCHESTER	COAL	3.00	43.00	

06300059000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 21 SWSWNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 546.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 49.90
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
546.00			UNCLASSIFIED	47.00	0.00	
499.00	CARBONDALE	COLCHESTER	COAL	2.90	47.00	

06300060000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 22
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 55.70
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.00			UNCLASSIFIED	53.00	0.00	
497.00	CARBONDALE	COLCHESTER	COAL	2.70	53.00	

06300062000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 23 SWSWNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 39.40
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.00			UNCLASSIFIED	37.00	0.00	
513.00	CARBONDALE	COLCHESTER	COAL	2.40	37.00	

06300063000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 23 NWNWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 56.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.00			UNCLASSIFIED	53.00	0.00	
497.00	CARBONDALE	COLCHESTER	COAL	3.00	53.00	

06300064000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 24
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 59.30
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.00			UNCLASSIFIED	57.00	0.00	
493.00	CARBONDALE	COLCHESTER	COAL	2.30	57.00	

06300065000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 25 NE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 38.10
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.00			UNCLASSIFIED	35.00	0.00	
515.00	CARBONDALE	COLCHESTER	COAL	3.10	35.00	

06300067000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 26 SW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 545.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 84.60
 SOURCE: GOOD LOG

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

TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
545.00			UNCLASSIFIED		81.00	0.00
464.00	CARBONDALE	COLCHESTER	COAL		3.60	81.00

06300069000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 32 SE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 120.50
 SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
555.00			UNCLASSIFIED		118.00	0.00
437.00	CARBONDALE	COLCHESTER	COAL		2.50	118.00

06300070000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 32 SW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 108.10
 SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
555.00			UNCLASSIFIED		106.00	0.00
449.00	CARBONDALE	COLCHESTER	COAL		2.10	106.00

06300071000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 34 SWNESW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 565.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 118.50
 SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
565.00			UNCLASSIFIED		116.00	0.00
449.00	CARBONDALE	COLCHESTER	COAL		2.50	116.00

06300075000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 32N - R 8E SECTION: 4 SWSNWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 560.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 133.90
 SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
560.00			UNCLASSIFIED		132.00	0.00
428.00	CARBONDALE	COLCHESTER	COAL		1.90	132.00

06300076000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 32N - R 8E SECTION: 7 SENESWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 107.90

SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
555.00			UNCLASSIFIED	29.00	0.00	
526.00	CARBONDALE	HOUCHIN CREEK	COAL	1.10	29.00	
524.90	CARBONDALE		UNCLASSIFIED	74.90	30.10	
450.00	CARBONDALE	COLCHESTER	COAL	2.90	105.00	

06300077000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 32N - R 8E SECTION: 8 NENESWN
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 558.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 115.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
558.00			UNCLASSIFIED	28.00	0.00	
530.00	CARBONDALE	HOUCHIN CREEK	COAL		28.00	
530.00	CARBONDALE		UNCLASSIFIED	84.00	28.00	
446.00	CARBONDALE	COLCHESTER	COAL	3.00	112.00	

06300078000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 32N - R 8E SECTION: 10 SE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 580.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 130.90
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
580.00			UNCLASSIFIED	128.00	0.00	
452.00	CARBONDALE	COLCHESTER	COAL	2.90	128.00	

06300080000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
 COUNTY: GRUNDY 32N - R 8E SECTION: 14 NWSE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 570.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 111.30
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.00			UNCLASSIFIED	108.00	0.00	
462.00	CARBONDALE	COLCHESTER	COAL	3.30	108.00	

06300081000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
 COUNTY: GRUNDY 32N - R 8E SECTION: 15 SENENSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 575.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 126.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
575.00			UNCLASSIFIED	124.00	0.00	
451.00	CARBONDALE	COLCHESTER	COAL	2.50	124.00	

06300082000C PROJECT: NCRDS87 QUADRANGLE: COAL CITY * ALTERNATE DESCRIPTION ON FILE *

COUNTY: GRUNDY 32N - R 8E SECTION: 17 NENW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 562.0 GEOLOGIST: WEIBEL DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 151.75
 SOURCE: WILMINGTON STAR MINING CO. LOCATION & ELEVATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
562.00			UNCONSOLIDATED	23.50	0.00	
538.50	CARBONDALE		SANDSTONE	12.00	23.50	
526.50	CARBONDALE		UNCLASSIFIED	8.00	35.50	
518.50	CARBONDALE		SANDSTONE	0.50	43.50	
518.00	CARBONDALE		SHALE	0.50	44.00	
517.50	CARBONDALE		BLACK SHALE	3.00	44.50	
514.50	CARBONDALE		UNDERCLAY	4.50	47.50	
510.00	CARBONDALE		SHALE	5.00	52.00	
505.00	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.50	57.00	
501.50	CARBONDALE	COLCHESTER	COAL	1.50	60.50	
500.00	SPOON		UNDERCLAY	5.00	62.00	
495.00	SPOON		SANDSTONE	32.50	67.00	
462.50	SPOON		SHALE	4.25	99.50	
458.20	SPOON		SANDSTONE	19.00	103.80	
439.20	SPOON		SHALE	26.00	122.80	
413.20	SPOON		COAL	3.00	148.80	

06300082000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY * ALTERNATE DESCRIPTION ON FILE *

COUNTY: GRUNDY 32N - R 8E SECTION: 17 NENW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 558.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 151.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
558.00			UNCLASSIFIED	44.00	0.00	
514.00	CARBONDALE	SPRINGFIELD	COAL		44.00	
514.00	CARBONDALE		UNCLASSIFIED	16.00	44.00	
498.00	CARBONDALE	HOUCHIN CREEK	COAL	1.50	60.00	
496.50	CARBONDALE		UNCLASSIFIED	86.50	61.50	
410.00	CARBONDALE	COLCHESTER	COAL	3.00	148.00	

06300083000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER

COUNTY: GRUNDY 32N - R 8E SECTION: 20 NESENNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 565.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 142.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
565.00			UNCLASSIFIED	139.00	0.00	
426.00	CARBONDALE	COLCHESTER	COAL	3.00	139.00	

06300084000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER

COUNTY: GRUNDY 32N - R 8E SECTION: 22 SENENWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 573.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 121.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
573.00			UNCLASSIFIED	118.00	0.00	

455.00 CARBONDALE COLCHESTER COAL 3.50 118.00

06300085000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
COUNTY: GRUNDY 32N - R 8E SECTION: 36 NESWNW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 583.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 96.10
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
583.00			UNCLASSIFIED	95.00	0.00	
488.00	CARBONDALE	COLCHESTER	COAL	1.10	95.00	

06300086000C PROJECT: RJJ-NCILL QUADRANGLE: KINSMAN
COUNTY: GRUNDY 32N - R 6E SECTION: 14 NWSWSW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 624.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 85.40
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
624.00			UNCLASSIFIED	79.00	0.00	
545.00	CARBONDALE	HERRIN	COAL	6.40	79.00	

06300091000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
COUNTY: GRUNDY 34N - R 6E SECTION: 23 NENESE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 583.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 102.70
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
583.00			UNCLASSIFIED	100.00	0.00	
483.00	CARBONDALE	COLCHESTER	COAL	2.70	100.00	

06300092000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
COUNTY: GRUNDY 34N - R 6E SECTION: 23 NESESENE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 585.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 100.00
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.00			UNCLASSIFIED	98.00	0.00	
487.00	CARBONDALE	COLCHESTER	COAL	2.00	98.00	

06300093000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
COUNTY: GRUNDY 34N - R 6E SECTION: 18 SNNWSW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 665.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 185.50
SOURCE: GOOD LOG

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
665.00			UNCLASSIFIED	184.00	0.00	
481.00	CARBONDALE	COLCHESTER	COAL	1.50	184.00	

06300095000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
COUNTY: GRUNDY 34N - R 6E SECTION: 15 NWNW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 604.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 95.50
SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
604.00			UNCLASSIFIED	93.00	0.00	
511.00	CARBONDALE	COLCHESTER	COAL	2.50	93.00	

06300096000C PROJECT: NCRDS87 QUADRANGLE: LISBON * ALTERNATE DESCRIPTION ON FILE *
COUNTY: GRUNDY 34N - R 6E SECTION: 13 NWNWNW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 600.0 GEOLOGIST: WEIBEL DATE COLLECTED: 11 / 3/1905
Drillers Log Water Well LOGGED (FT.): 114.00
SOURCE: C.J. ANDERSON

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
600.00			UNCONSOLIDATED	75.00	0.00	
525.00	CARBONDALE		UNCLASSIFIED	19.00	75.00	
506.00	CARBONDALE	COLCHESTER	COAL	2.50	94.00	
503.50	SPOON		UNCLASSIFIED	3.50	96.50	
500.00	SPOON		UNDERCLAY	5.00	100.00	
495.00	SPOON		UNCLASSIFIED	9.00	105.00	

06300096000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON * ALTERNATE DESCRIPTION ON FILE *
COUNTY: GRUNDY 34N - R 6E SECTION: 13 NWNWNW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 600.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 96.50
SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
600.00			UNCLASSIFIED	94.00	0.00	
506.00	CARBONDALE	COLCHESTER	COAL	2.50	94.00	

06300098000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
COUNTY: GRUNDY 34N - R 6E SECTION: 9 NENENE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 630.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 131.00
SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
630.00			UNCLASSIFIED	130.00	0.00	
500.00	CARBONDALE	COLCHESTER	COAL	1.00	130.00	

06300099000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 8 NWNWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 649.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 155.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
649.00			UNCLASSIFIED	155.00	0.00	
494.00	CARBONDALE	COLCHESTER	COAL		155.00	

06300100000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 32 NWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 84.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
555.00			UNCLASSIFIED	83.00	0.00	
472.00	CARBONDALE	COLCHESTER	COAL	1.50	83.00	

06300101000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 32 SWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 114.70
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
555.00			UNCLASSIFIED	37.00	0.00	
518.00	CARBONDALE	HOUCHIN CREEK	COAL		37.00	
518.00	CARBONDALE		UNCLASSIFIED	75.00	37.00	
443.00	CARBONDALE	COLCHESTER	COAL	2.70	112.00	

06300103000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 32 NESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 87.70
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
555.00			UNCLASSIFIED	85.00	0.00	
470.00	CARBONDALE	COLCHESTER	COAL	2.70	85.00	

06300104000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 32 SESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 112.60
 SOURCE: GOOD LOG

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

555.00
 520.00 CARBONDALE HOUCHIN CREEK COAL 35.00 0.00
 519.50 CARBONDALE UNCLASSIFIED 74.50 35.50
 445.00 CARBONDALE COLCHESTER COAL 2.60 110.00

06300107000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 25 SESESWNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 46.40
 SOURCE: GOOD LOG

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT

TOP (FT.)						
550.00			UNCLASSIFIED	43.00	0.00	
507.00	CARBONDALE	COLCHESTER	COAL	3.40	43.00	

06300108000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 25 SWSWNWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 43.40
 SOURCE: GOOD LOG

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT

TOP (FT.)						
550.00			UNCLASSIFIED	40.00	0.00	
510.00	CARBONDALE	COLCHESTER	COAL	3.40	40.00	

06300109000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 25 NWNWNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 59.00
 SOURCE: GOOD LOG

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT

TOP (FT.)						
550.00			UNCLASSIFIED	56.00	0.00	
494.00	CARBONDALE	COLCHESTER	COAL	3.00	56.00	

06300112000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 24 SWSSENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 50.10
 SOURCE: GOOD LOG

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT

TOP (FT.)						
550.00			UNCLASSIFIED	47.00	0.00	
503.00	CARBONDALE	COLCHESTER	COAL	3.10	47.00	

06300113000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 24 SESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 48.90

SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.00			UNCLASSIFIED	45.00	0.00	
505.00	CARBONDALE	COLCHESTER	COAL	3.90	45.00	

06300116000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 23 SESESWN
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 43.70
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.00			UNCLASSIFIED	41.00	0.00	
509.00	CARBONDALE	COLCHESTER	COAL	2.70	41.00	

06300121000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 22 NW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 548.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 39.90
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
548.00			UNCLASSIFIED	37.00	0.00	
511.00	CARBONDALE	COLCHESTER	COAL	2.90	37.00	

06300138000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 21
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 544.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 45.90
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
544.00			UNCLASSIFIED	43.00	0.00	
501.00	CARBONDALE	COLCHESTER	COAL	2.90	43.00	

06300141000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 21 SENENENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 545.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 32.90
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
545.00			UNCLASSIFIED	30.00	0.00	
515.00	CARBONDALE	COLCHESTER	COAL	2.90	30.00	

06300142000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 21 NE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 545.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 46.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
545.00			UNCLASSIFIED	43.00	0.00	
502.00	CARBONDALE	COLCHESTER	COAL	3.00	43.00	

06300143000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 21 SENWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 545.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 39.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
545.00			UNCLASSIFIED	39.00	0.00	
506.00	CARBONDALE	COLCHESTER	COAL	0.50	39.00	

06300144000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 21 SESENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 548.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 47.10
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
548.00			UNCLASSIFIED	45.00	0.00	
503.00	CARBONDALE	COLCHESTER	COAL	2.10	45.00	

06300146000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 20 SENENENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 542.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 36.90
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
542.00			UNCLASSIFIED	34.00	0.00	
508.00	CARBONDALE	COLCHESTER	COAL	2.90	34.00	

06300149000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 18 SESEWSE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 543.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 26.80
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
543.00			UNCLASSIFIED	25.00	0.00	
518.00	CARBONDALE	COLCHESTER	COAL	1.80	25.00	

06300238000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 17
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 535.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 41.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
535.00			UNCLASSIFIED	39.00	0.00	
496.00	CARBONDALE	COLCHESTER	COAL	2.50	39.00	

06300239000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 17 SWSSE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 539.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 45.20
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
539.00			UNCLASSIFIED	43.00	0.00	
496.00	CARBONDALE	COLCHESTER	COAL	2.20	43.00	

06300243000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 17 SW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 545.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 45.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
545.00			UNCLASSIFIED	43.00	0.00	
502.00	CARBONDALE	COLCHESTER	COAL	2.00	43.00	

06300246000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 17 SWSNWSE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 540.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 36.60
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
540.00			UNCLASSIFIED	33.00	0.00	
507.00	CARBONDALE	COLCHESTER	COAL	3.60	33.00	

06300248000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 17 SE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 539.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 0.00
 SOURCE: GOOD LOG

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

TOP (FT.) | | | |

 539.00 | | | | 0.00 0.00

06300249000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 17 NE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 530.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 21.10
 SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
530.00			UNCLASSIFIED	19.00	0.00	
511.00	CARBONDALE	COLCHESTER	COAL	2.10	19.00	

06300252000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 17 NWNWNSE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 535.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 38.00
 SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
535.00			UNCLASSIFIED	36.00	0.00	
499.00	CARBONDALE	COLCHESTER	COAL	2.00	36.00	

06300535000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 16 SWNWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 535.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 14.90
 SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
535.00			UNCLASSIFIED	12.00	0.00	
523.00	CARBONDALE	COLCHESTER	COAL	2.90	12.00	

06300539000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 16 SWNWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 540.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 31.00
 SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
540.00			UNCLASSIFIED	28.00	0.00	
512.00	CARBONDALE	COLCHESTER	COAL	3.00	28.00	

06300540000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 16 SWNWNSE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 540.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 32.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
540.00			UNCLASSIFIED	30.00	0.00	
510.00	CARBONDALE	COLCHESTER	COAL	2.00	30.00	

06300543000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 16 NW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 530.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 16.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
530.00			UNCLASSIFIED	14.00	0.00	
516.00	CARBONDALE	COLCHESTER	COAL	2.50	14.00	

06300559000C PROJECT: NCRDS87 QUADRANGLE: COAL CITY * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 8E SECTION: 16 NENESW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 530.0 GEOLOGIST: WEIBEL DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 37.75
 SOURCE: N.ILL. COAL CORP.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
530.00			UNCONSOLIDATED	12.00	0.00	
518.00	CARBONDALE		SHALE	2.83	12.00	
515.20	CARBONDALE	COLCHESTER	COAL	3.17	14.80	
512.00	SPOON		UNDERCLAY	6.42	18.00	
505.60	SPOON		SHALE	3.33	24.40	
502.20	SPOON		UNCLASSIFIED	2.50	27.80	
499.70	CARBONDALE		SHALE	7.50	30.30	

06300559000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 8E SECTION: 16 NENESW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 538.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 17.10
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
538.00			UNCLASSIFIED	14.00	0.00	
524.00	CARBONDALE	COLCHESTER	COAL	3.10	14.00	

06300572000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 33 SENENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 560.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 39.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.00			UNCLASSIFIED	37.00	0.00	
523.00	CARBONDALE	HOUCHIN CREEK	COAL	2.50	37.00	

06300573000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 30 SWNENENW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 500.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 108.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.00			UNCLASSIFIED	104.00	0.00	
396.00	CARBONDALE	COLCHESTER	COAL	4.00	104.00	

06300573000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 30 SWNENENW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 500.0 GEOLOGIST: TREWORGY,J DATE COLLECTED: 0 / 0/1943
 Drillers Log Water Well LOGGED (FT.): 360.00
 SOURCE: J. P. MILLER, ARTESIAN WELL CO

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.00			ROCK	40.00	0.00	
460.00			LIMESTONE	64.00	40.00	
396.00	CARBONDALE	COLCHESTER	COAL	4.00	104.00	
392.00			ROCK	252.00	108.00	

06300574000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 27 NENESW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 610.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 203.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.00			UNCLASSIFIED	115.00	0.00	
495.00	CARBONDALE	SPRINGFIELD	COAL	2.00	115.00	
493.00	CARBONDALE		UNCLASSIFIED	83.00	117.00	
410.00	CARBONDALE	COLCHESTER	COAL	3.00	200.00	

06300574000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 27 NENESW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 609.0 GEOLOGIST: TREWORGY,J DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 440.00
 SOURCE: C. J. ANDERSON CORRELATIONS BY R. JACOBSON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
609.00			UNCONSOLIDATED	60.00	0.00	
549.00			ROCK	55.00	60.00	
494.00	CARBONDALE	SPRINGFIELD	COAL	2.00	115.00	
492.00	CARBONDALE		ROCK	83.00	117.00	
409.00	CARBONDALE	COLCHESTER	COAL	3.00	200.00	
406.00			ROCK	237.00	203.00	

06300575000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 6E SECTION: 23 NENENE
 CONFIDENTIAL: N

SURFACE ELEVATION (FT.): 582.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 123.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
582.00			UNCLASSIFIED	120.00	0.00	
462.00	CARBONDALE	COLCHESTER	COAL	3.00	120.00	

06300576000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 15 SWSWSW

CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 500.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 77.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.00			UNCLASSIFIED	75.00	0.00	
425.00	CARBONDALE	COLCHESTER	COAL	2.00	75.00	

06300576000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 15 SWSWSW

CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 490.0 GEOLOGIST: TREWORGY,J DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 291.00
 SOURCE: UNKNOWN

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
490.00			UNCONSOLIDATED	5.00	0.00	
485.00			ROCK	70.00	5.00	
415.00	CARBONDALE	COLCHESTER	COAL	2.00	75.00	
413.00			ROCK	214.00	77.00	

06300577000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 9 NWNWSW

CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 609.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 157.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
609.00			UNCLASSIFIED	155.00	0.00	
454.00	CARBONDALE	COLCHESTER	COAL	2.00	155.00	

06300577000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 9 NWNWSW

CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 610.0 GEOLOGIST: TREWORGY,J DATE COLLECTED: 3 / 0/1906
 Drillers Log Water Well LOGGED (FT.): 323.00
 SOURCE: T. F. ANDERSON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.00			UCLY/SH	155.00	0.00	
455.00	CARBONDALE	COLCHESTER	COAL	2.00	155.00	
453.00			ROCK	166.00	157.00	

06300578000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 3 SESESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 570.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 146.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.00			UNCLASSIFIED	143.00	0.00	
427.00	CARBONDALE	COLCHESTER	COAL	3.00	143.00	

06300578000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 3 SESESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 570.0 GEOLOGIST: TREWORGY,J DATE COLLECTED: 0 / 0/1941
 Drillers Log Water Well LOGGED (FT.): 330.00
 SOURCE: J. T. ANDERSON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.00			UCLY/SH	140.00	0.00	
430.00	CARBONDALE	COLCHESTER	COAL	3.00	140.00	
427.00			ROCK	187.00	143.00	

06300579000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
 COUNTY: GRUNDY 32N - R 8E SECTION: 35 SENWNNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 575.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 124.40
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
575.00			UNCLASSIFIED	35.00	0.00	
540.00	CARBONDALE	HOUCHIN CREEK	COAL	3.00	35.00	
537.00	CARBONDALE		UNCLASSIFIED	83.00	38.00	
454.00	CARBONDALE	COLCHESTER	COAL	3.40	121.00	

06300585000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
 COUNTY: GRUNDY 32N - R 8E SECTION: 30 NENESW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 566.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 62.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
566.00			UNCLASSIFIED	43.00	0.00	
523.00	CARBONDALE	SPRINGFIELD	COAL		43.00	
523.00	CARBONDALE		UNCLASSIFIED	17.00	43.00	
506.00	CARBONDALE	HOUCHIN CREEK	COAL	2.50	60.00	

06300586000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
 COUNTY: GRUNDY 32N - R 8E SECTION: 29 NENENESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 567.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 64.70

SOURCE: _____ GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
567.00			UNCLASSIFIED	62.00	0.00	
505.00	CARBONDALE	HOUCHIN CREEK	COAL	2.70	62.00	

06300587000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
 COUNTY: GRUNDY 32N - R 8E SECTION: 29 SENWNWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 567.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 67.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
567.00			UNCLASSIFIED	57.00	0.00	
510.00	CARBONDALE	HOUCHIN CREEK	COAL	1.70	57.00	
508.30	CARBONDALE		UNCLASSIFIED	8.30	58.70	
500.00	CARBONDALE	LOWELL	COAL	0.50	67.00	

06300588000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
 COUNTY: GRUNDY 32N - R 8E SECTION: 28 NENWSENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 569.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 135.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
569.00			UNCLASSIFIED	132.00	0.00	
437.00	CARBONDALE	COLCHESTER	COAL	3.50	132.00	

06300589000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
 COUNTY: GRUNDY 32N - R 8E SECTION: 27 SESWNWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 569.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 134.30
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
569.00			UNCLASSIFIED	134.00	0.00	
435.00	CARBONDALE	COLCHESTER	COAL	0.30	134.00	

06300591000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
 COUNTY: GRUNDY 32N - R 8E SECTION: 25 NWNWNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 580.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 123.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
580.00			UNCLASSIFIED	120.00	0.00	
460.00	CARBONDALE	COLCHESTER	COAL	3.00	120.00	

06300592000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
 COUNTY: GRUNDY 32N - R 8E SECTION: 25 NWNWNSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 580.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 118.30
 SOURCE: GOOD LOG

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)	-----					
580.00			UNCLASSIFIED	115.00	0.00	
465.00	CARBONDALE	COLCHESTER	COAL	3.30	115.00	

06300595000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 32N - R 8E SECTION: 10 SESESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 572.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 118.20
 SOURCE: GOOD LOG

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)	-----					
572.00			UNCLASSIFIED	115.00	0.00	
457.00	CARBONDALE	COLCHESTER	COAL	3.20	115.00	

06300596000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 32N - R 8E SECTION: 8 SWNENW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 558.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 139.00
 SOURCE: GOOD LOG

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)	-----					
558.00			UNCLASSIFIED	47.00	0.00	
511.00	CARBONDALE	HOUCHIN CREEK	COAL		47.00	
511.00	CARBONDALE		UNCLASSIFIED	89.00	47.00	
422.00	CARBONDALE	COLCHESTER	COAL	3.00	136.00	

06300599000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
 COUNTY: GRUNDY 32N - R 7E SECTION: 24 SESENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 557.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 57.00
 SOURCE: GOOD LOG

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)	-----					
557.00			UNCLASSIFIED	42.00	0.00	
515.00	CARBONDALE	SPRINGFIELD	COAL		42.00	
515.00	CARBONDALE		UNCLASSIFIED	13.00	42.00	
502.00	CARBONDALE	HOUCHIN CREEK	COAL	2.00	55.00	

06300600000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 32N - R 7E SECTION: 14 SENENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 565.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 59.00
 SOURCE: GOOD LOG

						THICKNESS (FT.)
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)	-----					

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
565.00			UNCLASSIFIED	52.00	0.00	
513.00	CARBONDALE	SPRINGFIELD	COAL		52.00	
513.00	CARBONDALE		UNCLASSIFIED	7.00	52.00	
506.00	CARBONDALE	HOUCHIN CREEK	COAL		59.00	

06300601000C PROJECT: NCRDS87 QUADRANGLE: GARDNER * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 32N - R 7E SECTION: 13 NENESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 556.9 GEOLOGIST: WEIBEL DATE COLLECTED: 2 /22/1932
 Drillers Log Coal Test LOGGED (FT.): 59.83
 SOURCE: CENTRAL INDIANA COAL CO. LOCATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
556.90			UNCONSOLIDATED	12.75	0.00	
544.10	CARBONDALE		SANDSTONE	8.67	12.80	
535.50	CARBONDALE		SHALE	10.75	21.40	
524.70	CARBONDALE		BLACK SHALE	3.00	32.20	
521.70	CARBONDALE		SHALE	10.00	35.20	
511.70	CARBONDALE	EXCELLO	BLACK SHALE	2.00	45.20	UNCERTAIN CORRELATION
509.70	CARBONDALE	HOUCHIN CREEK	COAL	2.00	47.20	UNCERTAIN CORRELATION
507.70	CARBONDALE		UNDERCLAY	3.00	49.20	
504.70	CARBONDALE		SHALE	7.66	52.20	

06300601000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 32N - R 7E SECTION: 13 NENESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 557.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 49.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
557.00			UNCLASSIFIED	32.00	0.00	
525.00	CARBONDALE	SPRINGFIELD	COAL		32.00	
525.00	CARBONDALE		UNCLASSIFIED	15.00	32.00	
510.00	CARBONDALE	HOUCHIN CREEK	COAL	2.00	47.00	

06300603000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 32N - R 7E SECTION: 12 NWNNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 560.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 37.20
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.00			UNCLASSIFIED	22.00	0.00	
538.00	CARBONDALE	SPRINGFIELD	COAL		22.00	
538.00	CARBONDALE		UNCLASSIFIED	14.00	22.00	
524.00	CARBONDALE	HOUCHIN CREEK	COAL	1.20	36.00	

06300610000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
 COUNTY: GRUNDY 32N - R 6E SECTION: 35 NENWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 630.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 210.00
 SOURCE: FAIR LOG

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

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630.00 UNCLASSIFIED 84.00 0.00
546.00 CARBONDALE HERRIN COAL 4.50 84.00
541.50 CARBONDALE UNCLASSIFIED 44.50 88.50
497.00 CARBONDALE SPRINGFIELD COAL 133.00
497.00 CARBONDALE UNCLASSIFIED 74.00 133.00
423.00 CARBONDALE COLCHESTER COAL 3.00 207.00

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06300611000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
COUNTY: GRUNDY 32N - R 6E SECTION: 26 SENWSESE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 622.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 68.00
SOURCE: GOOD LOG

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ELEVATION| FORMATION | MEMBER | LITHOLOGY | THICKNESS (FT.)
TOP (FT.)| | | | UNIT OVERBURDEN COMMENT
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622.00 UNCLASSIFIED 67.00 0.00
555.00 CARBONDALE HERRIN COAL 1.00 67.00

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06300614000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
COUNTY: GRUNDY 32N - R 6E SECTION: 26 SESWSWSE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 627.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 79.50
SOURCE: GOOD LOG

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ELEVATION| FORMATION | MEMBER | LITHOLOGY | THICKNESS (FT.)
TOP (FT.)| | | | UNIT OVERBURDEN COMMENT
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627.00 UNCLASSIFIED 72.00 0.00
555.00 CARBONDALE HERRIN COAL 7.50 72.00

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06300616000C PROJECT: NCRDS87 QUADRANGLE: MAZON * ALTERNATE DESCRIPTION ON FILE *
COUNTY: GRUNDY 32N - R 6E SECTION: 26 SESESESE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 629.6 GEOLOGIST: WEIBEL DATE COLLECTED: 0 / 0/1925
Drillers Log Coal Test LOGGED (FT.): 214.75
SOURCE: VERONA COAL CO.

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ELEVATION| FORMATION | MEMBER | LITHOLOGY | THICKNESS (FT.)
TOP (FT.)| | | | UNIT OVERBURDEN COMMENT
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629.60 UNCONSOLIDATED 78.00 0.00
551.60 CARBONDALE UNDERCLAY 1.00 78.00
550.60 CARBONDALE SHALE 20.00 79.00
530.60 CARBONDALE HERRIN COAL 2.92 99.00 UNCERTAIN CORRELATION
527.70 CARBONDALE CLAYSTONE 0.20 101.90
527.50 CARBONDALE COAL 1.68 102.10
525.80 CARBONDALE CLAYSTONE 0.20 103.80
525.60 CARBONDALE COAL 1.83 104.00
523.80 CARBONDALE UNDERCLAY 2.34 105.80
521.40 CARBONDALE BONE COAL 1.08 108.20
520.30 CARBONDALE UNCLASSIFIED 1.33 109.30
519.00 CARBONDALE COAL 1.17 110.60
517.80 CARBONDALE UNDERCLAY 0.33 111.80
517.50 CARBONDALE BONE COAL 0.34 112.10
517.20 CARBONDALE UNDERCLAY 6.33 112.40
510.80 CARBONDALE SPRINGFIELD COAL 2.00 118.80
508.80 CARBONDALE UNDERCLAY 5.17 120.80
503.70 CARBONDALE SANDSTONE 8.75 125.90
494.90 CARBONDALE CONGL 2.50 134.70
492.40 CARBONDALE UNDERCLAY 1.13 137.20
491.30 CARBONDALE EXCELLO BLACK SHALE 2.37 138.30
488.90 CARBONDALE UNDERCLAY 19.41 140.70
469.50 CARBONDALE SHALE 29.25 160.10
440.30 CARBONDALE UNDERCLAY 8.17 189.30
432.10 CARBONDALE SHALE 12.08 197.50
420.00 CARBONDALE COLCHESTER COAL 3.00 209.60
417.00 SPOON UNDERCLAY 2.17 212.60

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06300616000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 32N - R 6E SECTION: 26 SESESESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 630.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 213.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.00			UNCLASSIFIED	100.00	0.00	
530.00	CARBONDALE	HERRIN	COAL	9.80	100.00	
520.20	CARBONDALE		UNCLASSIFIED	28.20	109.80	
492.00	CARBONDALE	SPRINGFIELD	COAL		138.00	
492.00	CARBONDALE		UNCLASSIFIED	72.00	138.00	
420.00	CARBONDALE	COLCHESTER	COAL	3.00	210.00	

06300617000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
 COUNTY: GRUNDY 32N - R 6E SECTION: 26 SWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 624.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 100.40
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
624.00			UNCLASSIFIED	93.00	0.00	
531.00	CARBONDALE	HERRIN	COAL	7.40	93.00	

06300618000C PROJECT: RJJ-NCILL QUADRANGLE: KINSMAN
 COUNTY: GRUNDY 32N - R 6E SECTION: 26 SWNNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 624.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 96.90
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
624.00			UNCLASSIFIED	89.00	0.00	
535.00	CARBONDALE	HERRIN	COAL	7.90	89.00	

06300619000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
 COUNTY: GRUNDY 32N - R 6E SECTION: 26 NESENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 623.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 89.70
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
623.00			UNCLASSIFIED	82.00	0.00	
541.00	CARBONDALE	HERRIN	COAL	7.70	82.00	

06300628000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
 COUNTY: GRUNDY 32N - R 6E SECTION: 25 SW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 627.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 95.10
 SOURCE: GOOD LOG

THICKNESS (FT.)						
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ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
627.00			UNCLASSIFIED	90.00	0.00	
537.00	CARBONDALE	HERRIN	COAL	5.10	90.00	

06300630000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
COUNTY: GRUNDY 32N - R 6E SECTION: 25 NENENESW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 621.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 129.00
SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
621.00			UNCLASSIFIED	129.00	0.00	
492.00	CARBONDALE	SPRINGFIELD	COAL		129.00	

06300631000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
COUNTY: GRUNDY 32N - R 6E SECTION: 25 SWSWN
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 624.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 90.00
SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
624.00			UNCLASSIFIED	82.00	0.00	
542.00	CARBONDALE	HERRIN	COAL	8.00	82.00	

06300633000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
COUNTY: GRUNDY 32N - R 6E SECTION: 25 NENENWN
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 623.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 77.00
SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
623.00			UNCLASSIFIED	71.00	0.00	
552.00	CARBONDALE	HERRIN	COAL	6.00	71.00	

06300634000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
COUNTY: GRUNDY 32N - R 6E SECTION: 25 SESWN
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 616.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 83.50
SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
616.00			UNCLASSIFIED	75.00	0.00	
541.00	CARBONDALE	HERRIN	COAL	8.50	75.00	

06300635000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
COUNTY: GRUNDY 32N - R 6E SECTION: 25 SENWN
CONFIDENTIAL: N

SURFACE ELEVATION (FT.): 624.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 90.40
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
624.00			UNCLASSIFIED	83.00	0.00	
541.00	CARBONDALE	HERRIN	COAL	7.40	83.00	

0630065000C PROJECT: RJJ-NCILL QUADRANGLE: KINSMAN
 COUNTY: GRUNDY 32N - R 6E SECTION: 23 SWSEW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 626.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 105.10
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
626.00			UNCLASSIFIED	98.00	0.00	
528.00	CARBONDALE	HERRIN	COAL	7.10	98.00	

06300655000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
 COUNTY: GRUNDY 32N - R 6E SECTION: 23 NENENESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 618.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 81.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
618.00			UNCLASSIFIED	76.00	0.00	
542.00	CARBONDALE	HERRIN	COAL	5.00	76.00	

06300659000C PROJECT: RJJ-NCILL QUADRANGLE: KINSMAN
 COUNTY: GRUNDY 32N - R 6E SECTION: 23 SWSEW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 620.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 83.80
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.00			UNCLASSIFIED	76.00	0.00	
544.00	CARBONDALE	HERRIN	COAL	7.80	76.00	

06300662000C PROJECT: RJJ-NCILL QUADRANGLE: KINSMAN
 COUNTY: GRUNDY 32N - R 6E SECTION: 23 NENWNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 624.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 102.90
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
624.00			UNCLASSIFIED	95.00	0.00	
529.00	CARBONDALE	HERRIN	COAL	7.90	95.00	

06300663000C PROJECT: RJJ-NCILL QUADRANGLE: KINSMAN
 COUNTY: GRUNDY 32N - R 6E SECTION: 23 NWNWNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 616.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 92.90
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
616.00			UNCLASSIFIED	85.00	0.00	
531.00	CARBONDALE	HERRIN	COAL	7.90	85.00	

06300664000C PROJECT: RJJ-NCILL QUADRANGLE: KINSMAN
 COUNTY: GRUNDY 32N - R 6E SECTION: 23 SWNWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 620.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 94.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.00			UNCLASSIFIED	87.00	0.00	
533.00	CARBONDALE	HERRIN	COAL	7.50	87.00	

06300666000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
 COUNTY: GRUNDY 32N - R 6E SECTION: 23 SWSWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 620.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 85.10
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.00			UNCLASSIFIED	79.00	0.00	
541.00	CARBONDALE	HERRIN	COAL	6.10	79.00	

06300667000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
 COUNTY: GRUNDY 32N - R 6E SECTION: 23 SWNESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 621.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 81.90
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
621.00			UNCLASSIFIED	78.00	0.00	
543.00	CARBONDALE	HERRIN	COAL	3.90	78.00	

06300668000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
 COUNTY: GRUNDY 32N - R 6E SECTION: 23 SESESESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 620.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 99.10
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.00			UNCLASSIFIED	92.00	0.00	

528.00 CARBONDALE HERRIN COAL 7.10 92.00

06300672000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
COUNTY: GRUNDY 32N - R 6E SECTION: 14 NESEWSW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 620.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 80.90
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
620.00			UNCLASSIFIED	77.00	0.00	
543.00	CARBONDALE	HERRIN	COAL	3.90	77.00	

06300673000C PROJECT: RJJ-NCILL QUADRANGLE: KINSMAN
COUNTY: GRUNDY 32N - R 6E SECTION: 14 NWSEW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 622.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 96.00
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
622.00			UNCLASSIFIED	89.00	0.00	
533.00	CARBONDALE	HERRIN	COAL	7.00	89.00	

06300674000C PROJECT: RJJ-NCILL QUADRANGLE: KINSMAN
COUNTY: GRUNDY 32N - R 6E SECTION: 14 NENWNSW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 626.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 123.00
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
626.00			UNCLASSIFIED	123.00	0.00	
503.00	CARBONDALE	HERRIN	COAL		123.00	

06300676000C PROJECT: RJJ-NCILL QUADRANGLE: KINSMAN
COUNTY: GRUNDY 32N - R 6E SECTION: 14 NWNWNSW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 631.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 118.90
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
631.00			UNCLASSIFIED	109.00	0.00	
522.00	CARBONDALE	HERRIN	COAL	9.90	109.00	

06300679000C PROJECT: RJJ-NCILL QUADRANGLE: KINSMAN
COUNTY: GRUNDY 32N - R 6E SECTION: 14 SENESESW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 618.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 74.80
SOURCE: GOOD LOG

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
618.00			UNCLASSIFIED	70.00	0.00	
548.00	CARBONDALE	HERRIN	COAL	4.80	70.00	

06300680000C PROJECT: RJJ-NCILL QUADRANGLE: KINSMAN
COUNTY: GRUNDY 32N - R 6E SECTION: 14 NESWSW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 622.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 117.90
SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
622.00			UNCLASSIFIED	108.00	0.00	
514.00	CARBONDALE	HERRIN	COAL	9.90	108.00	

06300682000C PROJECT: RJJ-NCILL QUADRANGLE: BUCKINGHAM
COUNTY: GRUNDY 31N - R 8E SECTION: 36 NWSWNE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 605.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 168.50
SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
605.00			UNCLASSIFIED	64.00	0.00	
541.00	CARBONDALE	SPRINGFIELD	COAL		64.00	
541.00	CARBONDALE		UNCLASSIFIED	36.00	64.00	
505.00	CARBONDALE	HOUCHIN CREEK	COAL	3.00	100.00	
502.00	CARBONDALE		UNCLASSIFIED	63.00	103.00	
439.00	CARBONDALE	COLCHESTER	COAL	2.50	166.00	

06300683000C PROJECT: RJJ-NCILL QUADRANGLE: CAMPUS
COUNTY: GRUNDY 31N - R 8E SECTION: 35 NESENW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 605.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 201.00
SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
605.00			UNCLASSIFIED	93.00	0.00	
512.00	CARBONDALE	SPRINGFIELD	COAL		93.00	
512.00	CARBONDALE		UNCLASSIFIED	30.00	93.00	
482.00	CARBONDALE	HOUCHIN CREEK	COAL	1.00	123.00	
481.00	CARBONDALE		UNCLASSIFIED	74.00	124.00	
407.00	CARBONDALE	COLCHESTER	COAL	3.00	198.00	

06300684000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
COUNTY: GRUNDY 31N - R 8E SECTION: 26
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 595.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 162.90
SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
595.00			UNCLASSIFIED	97.00	0.00	
498.00	CARBONDALE	HOUCHIN CREEK	COAL	3.10	97.00	
494.90	CARBONDALE		UNCLASSIFIED	59.90	100.10	

435.00 CARBONDALE COLCHESTER COAL 2.90 160.00

06300685000C PROJECT: RJJ-NCILL QUADRANGLE: ESSEX
COUNTY: GRUNDY 31N - R 8E SECTION: 25 SESWSE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 595.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 166.00
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
595.00			UNCLASSIFIED	65.00	0.00	
530.00	CARBONDALE	SPRINGFIELD	COAL	0.10	65.00	
529.90	CARBONDALE		UNCLASSIFIED	42.90	65.10	
487.00	CARBONDALE	HOUCHIN CREEK	COAL	3.70	108.00	
483.30	CARBONDALE		UNCLASSIFIED	52.30	111.70	
431.00	CARBONDALE	COLCHESTER	COAL	2.00	164.00	

06300686000C PROJECT: RJJ-NCILL QUADRANGLE: ESSEX
COUNTY: GRUNDY 31N - R 8E SECTION: 25 NESWSE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 595.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 155.00
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
595.00			UNCLASSIFIED	58.00	0.00	
537.00	CARBONDALE	SPRINGFIELD	COAL		58.00	
537.00	CARBONDALE		UNCLASSIFIED	45.00	58.00	
492.00	CARBONDALE	HOUCHIN CREEK	COAL	3.70	103.00	
488.30	CARBONDALE		UNCLASSIFIED	46.30	106.70	
442.00	CARBONDALE	COLCHESTER	COAL	2.00	153.00	

06300695000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
COUNTY: GRUNDY 31N - R 8E SECTION: 23 SENENW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 592.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 198.10
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
592.00			UNCLASSIFIED	80.00	0.00	
512.00	CARBONDALE	SPRINGFIELD	COAL		80.00	
512.00	CARBONDALE		UNCLASSIFIED	26.00	80.00	
486.00	CARBONDALE	HOUCHIN CREEK	COAL	3.70	106.00	
482.30	CARBONDALE		UNCLASSIFIED	85.30	109.70	
397.00	CARBONDALE	COLCHESTER	COAL	3.10	195.00	

06300696000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
COUNTY: GRUNDY 31N - R 8E SECTION: 9 NENENE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 589.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Oil and Gas Test LOGGED (FT.): 168.00
SOURCE: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
589.00			UNCLASSIFIED	165.00	0.00	
424.00	CARBONDALE	COLCHESTER	COAL	3.00	165.00	

06300698000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
 COUNTY: GRUNDY 31N - R 8E SECTION: 4 SESESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 585.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Oil and Gas Test LOGGED (FT.): 163.00
 SOURCE: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.00			UNCLASSIFIED	160.00	0.00	
425.00	CARBONDALE	COLCHESTER	COAL	3.00	160.00	

06300700000C PROJECT: NCRDS87 QUADRANGLE: MAZON * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 31N - R 7E SECTION: 2 NWNENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 590.0 GEOLOGIST: WEIBEL DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 211.00
 SOURCE: STEWART (FARM) LOCATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
590.00			UNCONSOLIDATED	60.00	0.00	
530.00	CARBONDALE		SHALE	55.00	60.00	
475.00	CARBONDALE	EXCELLO	BLACK SHALE	11.00	115.00	
464.00	CARBONDALE	HOUCHIN CREEK	COAL	0.33	126.00	
463.70			UNDERCLAY	3.67	126.30	
460.00			SHALE	6.00	130.00	
454.00			UNCLASSIFIED	60.00	136.00	
394.00			COAL	3.00	196.00	
391.00			UNDERCLAY	2.00	199.00	
389.00	CARBONDALE		UNCLASSIFIED	6.00	201.00	
383.00	CARBONDALE	COLCHESTER	COAL	3.00	207.00	
380.00	SPOON		UNDERCLAY	1.00	210.00	

06300700000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 31N - R 7E SECTION: 2 NWNENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 588.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 210.00
 SOURCE: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
588.00			UNCLASSIFIED	126.00	0.00	
462.00	CARBONDALE	HOUCHIN CREEK	COAL	0.30	126.00	
461.70	CARBONDALE		UNCLASSIFIED	69.70	126.30	
392.00	CARBONDALE	LOWELL	COAL	3.60	196.00	
388.40	CARBONDALE		UNCLASSIFIED	7.40	199.60	
381.00	CARBONDALE	COLCHESTER	COAL	3.00	207.00	

06300740000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
 COUNTY: GRUNDY 32N - R 8E SECTION: 26 NESESW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 575.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 136.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
575.00			UNCLASSIFIED	35.00	0.00	
540.00	CARBONDALE	HOUCHIN CREEK	COAL	1.70	35.00	
538.30	CARBONDALE		UNCLASSIFIED	97.30	36.70	
441.00	CARBONDALE	COLCHESTER	COAL	2.50	134.00	

06300750000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 25 NENWSE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 40.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.00			UNCLASSIFIED	37.00	0.00	
513.00	CARBONDALE	COLCHESTER	COAL	3.00	37.00	

06300751000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 35 SE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 565.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 114.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
565.00			UNCLASSIFIED	111.00	0.00	
454.00	CARBONDALE	COLCHESTER	COAL	3.00	111.00	

06300752000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 35 NE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 560.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 85.10
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.00			UNCLASSIFIED	82.00	0.00	
478.00	CARBONDALE	COLCHESTER	COAL	3.10	82.00	

06300794000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 36 NW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 62.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
555.00			UNCLASSIFIED	59.00	0.00	
496.00	CARBONDALE	COLCHESTER	COAL	3.00	59.00	

06300890000C PROJECT: NCRDS87 QUADRANGLE: ESSEX * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 31N - R 8E SECTION: 1 NWNESENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 603.0 GEOLOGIST: WEIBEL DATE COLLECTED: 0 / 0/1899
 Drillers Log Coal Test LOGGED (FT.): 183.00
 SOURCE: CARDIFF COAL CO.

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

TOP (FT.)					
603.00			UNCONSOLIDATED	63.00	0.00
540.00	CARBONDALE		LIMESTONE	12.67	63.00
527.30	CARBONDALE		SANDSTONE	2.33	75.70
525.00	CARBONDALE		UNCLASSIFIED	8.00	78.00
517.00	CARBONDALE		LIMESTONE	0.40	86.00
516.60	CARBONDALE		UNCLASSIFIED	2.10	86.40
514.50	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.25	88.50
511.20	CARBONDALE	COLCHESTER	COAL	4.83	91.80
506.40	SPOON		UNDERCLAY	7.84	96.60
498.60	SPOON		LIMESTONE	4.00	104.40
494.60	SPOON		SANDSTONE	27.58	108.40
467.00	SPOON		UNCLASSIFIED	21.67	136.00
445.30	SPOON		COAL	2.08	157.70
443.20	SPOON		UNDERCLAY	7.00	159.80
436.20	SPOON		UNCLASSIFIED	6.67	166.80
429.60	SPOON		UNCLASSIFIED	1.33	173.40
428.20	SPOON		COAL	0.25	174.80
428.00	SPOON		UNDERCLAY	8.00	175.00

06300890000C PROJECT: RJJ-NCILL QUADRANGLE: ESSEX * ALTERNATE DESCRIPTION ON FILE *
COUNTY: GRUNDY 31N - R 8E SECTION: 1 NWSENE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 577.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 95.90
SOURCE: FAIR LOG

				THICKNESS (FT.)		
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
577.00			UNCLASSIFIED	92.00	0.00	
485.00	CARBONDALE	COLCHESTER	COAL	3.90	92.00	

06300891000C PROJECT: RJJ-NCILL QUADRANGLE: GARDNER
COUNTY: GRUNDY 31N - R 8E SECTION: 11 NESWNE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 586.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Oil and Gas Test LOGGED (FT.): 175.00
SOURCE: FAIR LOG

				THICKNESS (FT.)		
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
586.00			UNCLASSIFIED	90.00	0.00	
496.00	CARBONDALE	HOUCHIN CREEK	COAL	3.00	90.00	
493.00	CARBONDALE		UNCLASSIFIED	82.00	93.00	
411.00	CARBONDALE	COLCHESTER	COAL		175.00	

06300895000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
COUNTY: GRUNDY 33N - R 6E SECTION: 11 SWSWNE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 520.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 69.00
SOURCE: GOOD LOG

				THICKNESS (FT.)		
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
520.00			UNCLASSIFIED	67.00	0.00	
453.00	CARBONDALE	COLCHESTER	COAL	2.00	67.00	

06300895000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
COUNTY: GRUNDY 33N - R 6E SECTION: 11 SWSWNE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 523.0 GEOLOGIST: TREWORGY,J DATE COLLECTED: 0 / 0/1955
Drillers Log Water Well LOGGED (FT.): 406.00
SOURCE: J. T. ANDERSON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
523.00			UNCONSOLIDATED	10.00	0.00	
513.00			SHALE	57.00	10.00	
456.00	CARBONDALE	COLCHESTER	COAL	2.00	67.00	
454.00			ROCK	337.00	69.00	

06300915000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 28 NWNWSE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 605.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Electric Log Oil and Gas Test LOGGED (FT.): 153.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
605.00			UNCLASSIFIED	150.00	0.00	
455.00	CARBONDALE	COLCHESTER	COAL	3.00	150.00	

06300923000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 8 NWNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 670.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 169.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
670.00			UNCLASSIFIED	167.00	0.00	
503.00	CARBONDALE	COLCHESTER	COAL	2.00	167.00	

06300930000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 34N - R 7E SECTION: 31 SWSWSE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 532.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 83.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
532.00			UNCLASSIFIED	81.00	0.00	
451.00	CARBONDALE	COLCHESTER	COAL	2.00	81.00	

06300931000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 31 SWNNWSE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 557.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 20.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
557.00			UNCLASSIFIED	18.00	0.00	
539.00	CARBONDALE	COLCHESTER	COAL	2.00	18.00	

06300937000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA
 COUNTY: GRUNDY 33N - R 6E SECTION: 14 SWNWENW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 504.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 78.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
504.00			UNCLASSIFIED	75.00	0.00	
429.00	CARBONDALE	COLCHESTER	COAL	3.00	75.00	

06300938000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA
 COUNTY: GRUNDY 33N - R 6E SECTION: 11 SWNWNESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 517.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 84.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
517.00			UNCLASSIFIED	81.00	0.00	
436.00	CARBONDALE	COLCHESTER	COAL	3.00	81.00	

06300940000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 6E SECTION: 14 SENENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 507.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 94.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
507.00			UNCLASSIFIED	91.00	0.00	
416.00	CARBONDALE	COLCHESTER	COAL	3.00	91.00	

06300941000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 6E SECTION: 14 NENENENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 502.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 72.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
502.00			UNCLASSIFIED	70.00	0.00	
432.00	CARBONDALE	COLCHESTER	COAL	2.50	70.00	

06300958000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 22 SWNWNNNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 548.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 24.30
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
548.00			UNCLASSIFIED	23.00	0.00	
525.00	CARBONDALE	COLCHESTER	COAL	1.30	23.00	

0630102000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 32N - R 8E SECTION: 1 SWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 565.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 96.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
565.00			UNCLASSIFIED	93.00	0.00	
472.00	CARBONDALE	COLCHESTER	COAL	3.00	93.00	

06301023000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 32N - R 8E SECTION: 13 NENWN
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 574.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 126.70
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
574.00			UNCLASSIFIED	123.00	0.00	
451.00	CARBONDALE	COLCHESTER	COAL	3.70	123.00	

06301024000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 32N - R 8E SECTION: 18 SESENW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 558.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 42.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
558.00			UNCLASSIFIED	42.00	0.00	
516.00	CARBONDALE	SPRINGFIELD	COAL		42.00	

06301032000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 10 NWSNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 530.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 87.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
530.00			UNCLASSIFIED	85.00	0.00	
445.00	CARBONDALE	COLCHESTER	COAL	2.00	85.00	

06301032000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 10 NWSNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 540.0 GEOLOGIST: TREWORGY,J DATE COLLECTED: 8 /25/1950
 Drillers Log Water Well LOGGED (FT.): 300.00
 SOURCE: J. T. ANDERSON

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

TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
540.00			ROCK	85.00	0.00	
455.00	CARBONDALE	COLCHESTER	COAL	2.00	85.00	
453.00			ROCK	213.00	87.00	

06301034000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 6E SECTION: 12 NESESWN
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 540.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 75.00
 SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
540.00			UNCLASSIFIED	73.00	0.00	
467.00	CARBONDALE	COLCHESTER	COAL	2.00	73.00	

06301040000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 22 NWNSESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 602.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 182.00
 SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
602.00			UNCLASSIFIED	179.00	0.00	
423.00	CARBONDALE	COLCHESTER	COAL	3.00	179.00	

06301040000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 22 NWNSESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 602.0 GEOLOGIST: TREWORGY,J DATE COLLECTED: 12 / 6/1895
 Drillers Log Water Well LOGGED (FT.): 408.00
 SOURCE: C. J. ANDERSON

THICKNESS (FT.)						
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
602.00			UNKNOWN	137.00	0.00	
465.00			ROCK	42.00	137.00	
423.00	CARBONDALE	COLCHESTER	COAL	3.00	179.00	
420.00			ROCK	226.00	182.00	

06301043000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 27 NWNWNESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 608.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 212.00
 SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
608.00			UNCLASSIFIED	129.00	0.00	
479.00	CARBONDALE	SPRINGFIELD	COAL	1.00	129.00	
478.00	CARBONDALE		UNCLASSIFIED	82.00	130.00	
396.00	CARBONDALE	COLCHESTER	COAL		212.00	

06301043000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 27 NWNWNESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 610.0 GEOLOGIST: TREWORGY, J DATE COLLECTED: 0 / 0/1916
 Drillers Log Water Well LOGGED (FT.): 494.66
 SOURCE: C. J. ANDERSON CORRELATIONS BY R. JACOBSON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.00			UNCONSOLIDATED	53.00	0.00	
557.00			ROCK	27.00	53.00	
530.00	CARBONDALE	SPRINGFIELD	COAL	1.00	80.00	
529.00	CARBONDALE		ROCK	73.00	81.00	
	CARBONDALE	COLCHESTER	COAL		154.00	
			ROCK	340.66	154.00	

06301055000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 30 NESWNEW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 500.0 GEOLOGIST: JACOBSON, R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 95.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.00			UNCLASSIFIED	92.00	0.00	
408.00	CARBONDALE	COLCHESTER	COAL	3.00	92.00	

06301055000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 30 NESWNEW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 510.0 GEOLOGIST: TREWORGY, J DATE COLLECTED: 10 /18/1950
 Drillers Log Water Well LOGGED (FT.): 310.00
 SOURCE: J. T. ANDERSON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
510.00			UNCONSOLIDATED	35.00	0.00	
475.00			SHALE	57.00	35.00	SANDY
418.00	CARBONDALE	COLCHESTER	COAL	3.00	92.00	
415.00			ROCK	215.00	95.00	

06301079000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 4 SWSSE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 523.0 GEOLOGIST: JACOBSON, R DATE COLLECTED:
 Drillers Log Oil and Gas Test LOGGED (FT.): 69.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
523.00			UNCLASSIFIED	67.00	0.00	
456.00	CARBONDALE	COLCHESTER	COAL	2.00	67.00	

06301080000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 4 SWWSE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 505.0 GEOLOGIST: JACOBSON, R DATE COLLECTED:
 Drillers Log Oil and Gas Test LOGGED (FT.): 60.00
 SOURCE: GOOD LOG

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
505.00			UNCLASSIFIED	60.00	0.00	
445.00	CARBONDALE	COLCHESTER	COAL		60.00	

06301083000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 5 NENENW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 545.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 80.00
 SOURCE: GOOD LOG

							THICKNESS (FT.)
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT	
545.00			UNCLASSIFIED	78.00	0.00		
467.00	CARBONDALE	COLCHESTER	COAL	2.00	78.00		

06301102000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 7E SECTION: 13 NWNWE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 525.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 77.00
 SOURCE: GOOD LOG

							THICKNESS (FT.)
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT	
525.00			UNCLASSIFIED	74.00	0.00		
451.00	CARBONDALE	COLCHESTER	COAL	3.00	74.00		

06301120000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 34 NWNENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 56.50
 SOURCE: GOOD LOG

							THICKNESS (FT.)
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT	
555.00			UNCLASSIFIED	44.00	0.00		
511.00	CARBONDALE	SPRINGFIELD	COAL		44.00		
511.00	CARBONDALE		UNCLASSIFIED	10.00	44.00		
501.00	CARBONDALE	HOUCHIN CREEK	COAL	2.50	54.00		

06301123000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 36 SW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 36.00
 SOURCE: GOOD LOG

							THICKNESS (FT.)
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT	
550.00			UNCLASSIFIED	35.00	0.00		
515.00	CARBONDALE	HOUCHIN CREEK	COAL	1.00	35.00		

06301173000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 15 SWSWE

CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 33.10
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.00			UNCLASSIFIED	30.00	0.00	
520.00	CARBONDALE	COLCHESTER	COAL	3.10	30.00	

06301174000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 15 SWSE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 24.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.00			UNCLASSIFIED	21.00	0.00	
529.00	CARBONDALE	COLCHESTER	COAL	3.00	21.00	

06301175000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 15 SWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 545.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 23.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
545.00			UNCLASSIFIED	20.00	0.00	
525.00	CARBONDALE	COLCHESTER	COAL	3.50	20.00	

06301181000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 15 SWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 542.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 23.70
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
542.00			UNCLASSIFIED	20.00	0.00	
522.00	CARBONDALE	COLCHESTER	COAL	3.70	20.00	

06301279000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 17 NWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 645.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 171.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
645.00			UNCLASSIFIED	169.00	0.00	
476.00	CARBONDALE	COLCHESTER	COAL	2.00	169.00	

06301285000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 23 SWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 584.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 100.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
584.00			UNCLASSIFIED	98.00	0.00	
486.00	CARBONDALE	COLCHESTER	COAL	2.00	98.00	

06301287000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 26 SWNSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 595.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 130.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
595.00			UNCLASSIFIED	130.00	0.00	
465.00	CARBONDALE	COLCHESTER	COAL		130.00	

06301310000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 30 SWNSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 560.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 71.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.00			UNCLASSIFIED	70.00	0.00	
490.00	CARBONDALE	COLCHESTER	COAL	1.00	70.00	

06301311000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 33 NWNESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 530.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 54.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
530.00			UNCLASSIFIED	51.00	0.00	
479.00	CARBONDALE	COLCHESTER	COAL	3.00	51.00	

06301312000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 34N - R 7E SECTION: 33 SESESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 520.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 25.00
 SOURCE: GOOD LOG

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

520.00 UNCLASSIFIED 23.00 0.00
 497.00 CARBONDALE COLCHESTER COAL 2.00 23.00

06301314000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 34 NWNWNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 545.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 40.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
545.00			UNCLASSIFIED	38.00	0.00	
507.00	CARBONDALE	COLCHESTER	COAL	2.00	38.00	

06301315000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 35 SESWNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 525.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 12.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
525.00			UNCLASSIFIED	12.00	0.00	
513.00	CARBONDALE	COLCHESTER	COAL		12.00	

06301390000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
 COUNTY: GRUNDY 31N - R 7E SECTION: 18 NENWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 623.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Survey Core Study Coal Test LOGGED (FT.): 215.10
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
623.00			UNCLASSIFIED	113.00	0.00	
510.00	CARBONDALE	DANVILLE	COAL	0.40	113.00	
509.60	CARBONDALE		UNCLASSIFIED	5.60	113.40	
504.00	CARBONDALE	HERRIN	COAL	3.70	119.00	
500.30	CARBONDALE		UNCLASSIFIED	91.30	122.70	
409.00	CARBONDALE	COLCHESTER	COAL	1.10	214.00	

06301430000C PROJECT: RJJ-NCILL QUADRANGLE: KINSMAN
 COUNTY: GRUNDY 32N - R 6E SECTION: 21 SESWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 652.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Electric Log Oil and Gas Test LOGGED (FT.): 261.00
 SOURCE: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
652.00			UNCLASSIFIED	124.00	0.00	
528.00	CARBONDALE	HERRIN	COAL		124.00	
528.00	CARBONDALE		UNCLASSIFIED	62.00	124.00	
466.00	CARBONDALE	SPRINGFIELD	COAL		186.00	
466.00	CARBONDALE		UNCLASSIFIED	16.00	186.00	
450.00	CARBONDALE	HOUCHIN CREEK	COAL	2.50	202.00	
447.50	CARBONDALE		UNCLASSIFIED	53.50	204.50	
394.00	CARBONDALE	COLCHESTER	COAL	3.00	258.00	

06301449000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 29 SESENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 605.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 135.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
605.00			UNCLASSIFIED	70.00	0.00	
535.00	CARBONDALE	HOUCHIN CREEK	COAL	1.00	70.00	
534.00	CARBONDALE		UNCLASSIFIED	64.00	71.00	
470.00	CARBONDALE	COLCHESTER	COAL		135.00	

06301470000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
 COUNTY: GRUNDY 31N - R 7E SECTION: 26 SNNWNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 609.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Electric Log Oil and Gas Test LOGGED (FT.): 229.50
 SOURCE: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
609.00			UNCLASSIFIED	227.00	0.00	
382.00	CARBONDALE	COLCHESTER	COAL	2.50	227.00	

06301517000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 34N - R 7E SECTION: 31 SESWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 558.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 81.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
558.00			UNCLASSIFIED	80.00	0.00	
478.00	CARBONDALE	COLCHESTER	COAL	1.00	80.00	

06301552000C PROJECT: RJJ-NCILL QUADRANGLE: MAZON
 COUNTY: GRUNDY 32N - R 6E SECTION: 13 SWSESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 610.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 71.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.00			UNCLASSIFIED	66.00	0.00	
544.00	CARBONDALE	HERRIN	COAL	5.00	66.00	

06301558000C PROJECT: RJJ-NCILL QUADRANGLE: KINSMAN
 COUNTY: GRUNDY 32N - R 6E SECTION: 20 SENWSE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 650.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 230.00
 SOURCE: GOOD LOG

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

TOP (FT.)						
650.00			UNCLASSIFIED	152.00	0.00	
498.00	CARBONDALE	HOUCHIN CREEK	COAL	3.00	152.00	
495.00	CARBONDALE		UNCLASSIFIED	73.00	155.00	
422.00	CARBONDALE	COLCHESTER	COAL	2.00	228.00	

06301652000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
COUNTY: GRUNDY 33N - R 6E SECTION: 2 NWNENE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 570.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 143.00
SOURCE: GOOD LOG

							THICKNESS (FT.)	
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT		
TOP (FT.)								
570.00			UNCLASSIFIED	140.00	0.00			
430.00	CARBONDALE	COLCHESTER	COAL	3.00	140.00			

06301652000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
COUNTY: GRUNDY 33N - R 6E SECTION: 2 NWNENE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: TREWORYG,J DATE COLLECTED: 7 / 1/1958
Drillers Log Water Well LOGGED (FT.): 350.00
SOURCE: J. T. ANDERSON

							THICKNESS (FT.)	
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT		
TOP (FT.)								
555.00			UNCONSOLIDATED	31.00	0.00			
524.00			ROCK	22.00	31.00			
502.00			SHALE	87.00	53.00			
415.00	CARBONDALE	COLCHESTER	COAL	3.00	140.00			
412.00			ROCK	207.00	143.00			

06301659000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
COUNTY: GRUNDY 33N - R 6E SECTION: 11 NWNWNW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 530.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 85.00
SOURCE: GOOD LOG

							THICKNESS (FT.)	
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT		
TOP (FT.)								
530.00			UNCLASSIFIED	82.00	0.00			
448.00	CARBONDALE	COLCHESTER	COAL	3.00	82.00			

06301659000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
COUNTY: GRUNDY 33N - R 6E SECTION: 11 NWNWNW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 540.0 GEOLOGIST: TREWORYG,J DATE COLLECTED: 10 / 24/1902
Drillers Log Water Well LOGGED (FT.): 300.00
SOURCE: T. F. ANDERSON

							THICKNESS (FT.)	
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT		
TOP (FT.)								
540.00			UNKNOWN	82.00	0.00			
458.00	CARBONDALE	COLCHESTER	COAL	3.00	82.00			
455.00			UNKNOWN	215.00	85.00			

06301662000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 14 NWNWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 510.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 77.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
510.00			UNCLASSIFIED	75.00	0.00	
435.00	CARBONDALE	COLCHESTER	COAL	2.00	75.00	

06301662000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 14 NWNWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 510.0 GEOLOGIST: TREWORGY,J DATE COLLECTED: 6 /25/1946
 Drillers Log Water Well LOGGED (FT.): 335.00
 SOURCE: J. T. ANDERSON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
510.00			UNCONSOLIDATED	30.00	0.00	
480.00			SHALE	45.00	30.00	
435.00	CARBONDALE	COLCHESTER	COAL	2.00	75.00	
433.00			ROCK	258.00	77.00	

06301664000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 15 NWSNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 510.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 94.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
510.00			UNCLASSIFIED	92.00	0.00	
418.00	CARBONDALE	COLCHESTER	COAL	2.50	92.00	

06301664000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 15 NWSNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 512.0 GEOLOGIST: TREWORGY,J DATE COLLECTED: 9 /30/1903
 Drillers Log Water Well LOGGED (FT.): 305.00
 SOURCE: C. J. ANDERSON

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
512.00			UNKNOWN	20.00	0.00	
492.00			ROCK	72.00	20.00	
420.00	CARBONDALE	COLCHESTER	COAL	2.50	92.00	
417.50			ROCK	210.50	94.50	

06301666000C PROJECT: BLM QUADRANGLE: SENECA
 COUNTY: GRUNDY 33N - R 6E SECTION: 17 NENENW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 536.0 GEOLOGIST: TREWORGY,J DATE COLLECTED: 9 / 2/1926
 Drillers Log Water Well LOGGED (FT.): 258.00
 SOURCE: T. F. ANDERSON

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

TOP (FT.)					
536.00			UNCONSOLIDATED	16.00	0.00
520.00			ROCK	62.00	16.00
			COAL		78.00
			ROCK	180.00	78.00

06301667000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 17 NWNENW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 530.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 76.00
 SOURCE: GOOD LOG

				THICKNESS (FT.)		
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
530.00			UNCLASSIFIED	73.00	0.00	
457.00	CARBONDALE	COLCHESTER	COAL	3.00	73.00	

06301667000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 17 NWNENW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 528.0 GEOLOGIST: TREWORGY,J DATE COLLECTED: 11 /28/1928
 Drillers Log Water Well LOGGED (FT.): 264.00
 SOURCE: T. F. ANDERSON

				THICKNESS (FT.)		
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
528.00			UNCONSOLIDATED	15.00	0.00	
513.00			SHALE	58.00	15.00	"SOAPSTONE"
455.00	CARBONDALE	COLCHESTER	COAL	3.00	73.00	
452.00			ROCK	188.00	76.00	

06301669000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 20 SWSWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 495.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 81.50
 SOURCE: GOOD LOG

				THICKNESS (FT.)		
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
495.00			UNCLASSIFIED	80.00	0.00	
415.00	CARBONDALE	COLCHESTER	COAL	1.50	80.00	

06301669000C PROJECT: BLM QUADRANGLE: SENECA * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 33N - R 6E SECTION: 20 SWSWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 490.0 GEOLOGIST: TREWORGY,J DATE COLLECTED: 4 / 9/1943
 Drillers Log Water Well LOGGED (FT.): 90.00
 SOURCE: J. T. ANDERSON

				THICKNESS (FT.)		
ELEVATION	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
TOP (FT.)						
490.00			UNCONSOLIDATED	20.00	0.00	
470.00			ROCK	60.00	20.00	
410.00	CARBONDALE	COLCHESTER	COAL	1.50	80.00	
408.50			ROCK	8.50	81.50	

06301692000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 3 SWSWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 525.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 37.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
525.00			UNCLASSIFIED	34.00	0.00	
491.00	CARBONDALE	COLCHESTER	COAL	3.00	34.00	

06301698000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 5 NWNSE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 525.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 49.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
525.00			UNCLASSIFIED	47.00	0.00	
478.00	CARBONDALE	COLCHESTER	COAL	2.00	47.00	

06301701000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 6 NWNNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 530.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 95.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
530.00			UNCLASSIFIED	93.00	0.00	
437.00	CARBONDALE	COLCHESTER	COAL	2.50	93.00	

06301703000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 7 NESWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 515.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 94.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
515.00			UNCLASSIFIED	92.00	0.00	
423.00	CARBONDALE	COLCHESTER	COAL	2.00	92.00	

06301715000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 7E SECTION: 13 SENWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 530.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 74.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
530.00			UNCLASSIFIED	71.00	0.00	
459.00	CARBONDALE	COLCHESTER	COAL	3.00	71.00	

06301716000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 7E SECTION: 13 SESESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 530.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 57.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
530.00			UNCLASSIFIED	55.00	0.00	
475.00	CARBONDALE	COLCHESTER	COAL	2.00	55.00	

06301735000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 21 NWNWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 538.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 100.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
538.00			UNCLASSIFIED	100.00	0.00	
438.00	CARBONDALE	COLCHESTER	COAL		100.00	

06301743000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 23 SESENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 113.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.00			UNCLASSIFIED	110.00	0.00	
440.00	CARBONDALE	COLCHESTER	COAL	3.00	110.00	

06301751000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 26 SESENW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 143.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
555.00			UNCLASSIFIED	143.00	0.00	
412.00	CARBONDALE	COLCHESTER	COAL		143.00	

06301761000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 35 SWSWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 560.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 38.00
 SOURCE: GOOD LOG

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

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
560.00			UNCLASSIFIED	38.00	0.00	
522.00	CARBONDALE	HOUCHIN CREEK	COAL		38.00	

06301765000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 36 NENWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 36.00
 SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
555.00			UNCLASSIFIED	35.00	0.00	
520.00	CARBONDALE	HOUCHIN CREEK	COAL	1.00	35.00	

06301766000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 36 SWSWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 558.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 106.00
 SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
558.00			UNCLASSIFIED	103.00	0.00	
455.00	CARBONDALE	COLCHESTER	COAL	3.00	103.00	

06301767000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 33N - R 7E SECTION: 36 SESWNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 558.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 36.00
 SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
558.00			UNCLASSIFIED	36.00	0.00	
522.00	CARBONDALE	HOUCHIN CREEK	COAL		36.00	

06301793000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 20 SESENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 546.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 48.00
 SOURCE: GOOD LOG

THICKNESS (FT.)						
ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	UNIT	OVERBURDEN	COMMENT
546.00			UNCLASSIFIED	48.00	0.00	
498.00	CARBONDALE	COLCHESTER	COAL		48.00	

06301795000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 26 SESWNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 545.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:

Drillers Log Water Well LOGGED (FT.): 71.00
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
545.00			UNCLASSIFIED	68.00	0.00	
477.00	CARBONDALE	COLCHESTER	COAL	3.00	68.00	

06301796000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
COUNTY: GRUNDY 33N - R 8E SECTION: 28 SWSWNW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 545.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 71.00
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
545.00			UNCLASSIFIED	70.00	0.00	
475.00	CARBONDALE	LOWELL	COAL	1.00	70.00	
474.00			UNCLASSIFIED	32.00	71.00	
442.00	CARBONDALE	COLCHESTER	COAL	1.00	103.00	

06301803000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
COUNTY: GRUNDY 33N - R 8E SECTION: 33 SESESE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 560.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 132.00
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.00			UNCLASSIFIED	130.00	0.00	
430.00	CARBONDALE	COLCHESTER	COAL	2.00	130.00	

06301805000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
COUNTY: GRUNDY 33N - R 8E SECTION: 33 SENWSE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 99.00
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
555.00			UNCLASSIFIED	97.00	0.00	
458.00	CARBONDALE	COLCHESTER	COAL	2.00	97.00	

06301807000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
COUNTY: GRUNDY 33N - R 8E SECTION: 33 SWNESW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Coal Test LOGGED (FT.): 109.00
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
555.00			UNCLASSIFIED	107.00	0.00	
448.00	CARBONDALE	COLCHESTER	COAL	2.00	107.00	

06301808000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 33 SENSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Coal Test LOGGED (FT.): 113.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
555.00			UNCLASSIFIED	110.00	0.00	
445.00	CARBONDALE	COLCHESTER	COAL	3.00	110.00	

06301827000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 5 SESEW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 662.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 167.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
662.00			UNCLASSIFIED	165.00	0.00	
497.00	CARBONDALE	COLCHESTER	COAL	2.00	165.00	

06301828000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 7 NENENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 673.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 167.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
673.00			UNCLASSIFIED	165.00	0.00	
508.00	CARBONDALE	COLCHESTER	COAL	2.00	165.00	

06301830000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 10 SWNWE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 610.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 95.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
610.00			UNCLASSIFIED	93.00	0.00	
517.00	CARBONDALE	COLCHESTER	COAL	2.50	93.00	

06301838000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 17 NENESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 630.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 150.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
630.00			UNCLASSIFIED	150.00	0.00	
480.00	CARBONDALE	COLCHESTER	COAL	2.50	150.00	

630.00 UNCLASSIFIED 148.00 0.00
 482.00 CARBONDALE COLCHESTER COAL 2.00 148.00

06301839000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 18 NWNWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 665.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 179.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.00			UNCLASSIFIED	178.00	0.00	
487.00	CARBONDALE	COLCHESTER	COAL	1.00	178.00	

06301840000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 18 SWNENW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 680.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 178.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
680.00			UNCLASSIFIED	177.00	0.00	
503.00	CARBONDALE	COLCHESTER	COAL	1.00	177.00	

06301843000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 22 SWNWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 590.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 131.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
590.00			UNCLASSIFIED	129.00	0.00	
461.00	CARBONDALE	COLCHESTER	COAL	2.50	129.00	

06301849000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 6E SECTION: 25 NENENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 574.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 108.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
574.00			UNCLASSIFIED	105.00	0.00	
469.00	CARBONDALE	COLCHESTER	COAL	3.00	105.00	

06301850000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 6E SECTION: 25 SWSWSW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 581.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 121.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
581.00			UNCLASSIFIED	119.00	0.00	
462.00	CARBONDALE	COLCHESTER	COAL	2.00	119.00	

06301854000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 28 NENENW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 600.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 137.50
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.00			UNCLASSIFIED	135.00	0.00	
465.00	CARBONDALE	COLCHESTER	COAL	2.50	135.00	

06301867000C PROJECT: RJJ-NCILL QUADRANGLE: SENECA
 COUNTY: GRUNDY 34N - R 6E SECTION: 35 SESESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 556.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 107.60
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
556.00			UNCLASSIFIED	105.00	0.00	
451.00	CARBONDALE	COLCHESTER	COAL	2.60	105.00	

06301871000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 34N - R 6E SECTION: 36 SESESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 560.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 88.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.00			UNCLASSIFIED	86.00	0.00	
474.00	CARBONDALE	COLCHESTER	COAL	2.00	86.00	

06301914000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 19 NENENW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 575.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 72.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
575.00			UNCLASSIFIED	70.00	0.00	
505.00	CARBONDALE	COLCHESTER	COAL	2.00	70.00	

06301915000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 20 NWNWSW

CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 573.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 76.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
573.00			UNCLASSIFIED	74.00	0.00	
499.00	CARBONDALE	COLCHESTER	COAL	2.00	74.00	

06301917000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 20 NESWNE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 570.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 72.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.00			UNCLASSIFIED	71.00	0.00	
499.00	CARBONDALE	COLCHESTER	COAL	1.00	71.00	

06301931000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 27 NWSNW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 64.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.00			UNCLASSIFIED	61.00	0.00	
489.00	CARBONDALE	COLCHESTER	COAL	3.00	61.00	

06301934000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 28 SESESW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 550.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 52.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.00			UNCLASSIFIED	50.00	0.00	
500.00	CARBONDALE	COLCHESTER	COAL	2.00	50.00	

06301935000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 28 SENENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 551.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 53.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
551.00			UNCLASSIFIED	53.00	0.00	
498.00	CARBONDALE	COLCHESTER	COAL		53.00	

06301937000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 28 NENENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 551.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 40.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
551.00			UNCLASSIFIED	38.00	0.00	
513.00	CARBONDALE	COLCHESTER	COAL	2.00	38.00	

06301938000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 28 NWSWN
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 54.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
555.00			UNCLASSIFIED	52.00	0.00	
503.00	CARBONDALE	COLCHESTER	COAL	2.00	52.00	

06301941000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
 COUNTY: GRUNDY 34N - R 7E SECTION: 30 NWSEW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 562.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 73.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
562.00			UNCLASSIFIED	70.00	0.00	
492.00	CARBONDALE	COLCHESTER	COAL	3.00	70.00	

06301944000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 34N - R 7E SECTION: 32 SWSEW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 545.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 95.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
545.00			UNCLASSIFIED	93.00	0.00	
452.00	CARBONDALE	COLCHESTER	COAL	2.00	93.00	

06301946000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
 COUNTY: GRUNDY 34N - R 7E SECTION: 32 NESWE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 542.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 56.70
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
542.00			UNCLASSIFIED	56.70	0.00	

542.00
488.00 CARBONDALE COLCHESTER UNCLASSIFIED COAL 54.00 0.00
2.70 54.00

06301947000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
COUNTY: GRUNDY 34N - R 7E SECTION: 32 NWNENW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 555.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 84.00
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
555.00			UNCLASSIFIED	84.00	0.00	
471.00	CARBONDALE	COLCHESTER	COAL		84.00	

06301950000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
COUNTY: GRUNDY 34N - R 7E SECTION: 33 SENESE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 530.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 34.00
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
530.00			UNCLASSIFIED	32.00	0.00	
498.00	CARBONDALE	COLCHESTER	COAL	2.00	32.00	

06301952000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
COUNTY: GRUNDY 34N - R 7E SECTION: 34 NWSWSW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 525.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 24.90
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
525.00			UNCLASSIFIED	22.00	0.00	
503.00	CARBONDALE	COLCHESTER	COAL	2.90	22.00	

06301955000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
COUNTY: GRUNDY 34N - R 7E SECTION: 34 SESENE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 520.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 25.00
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
520.00			UNCLASSIFIED	23.00	0.00	
497.00	CARBONDALE	COLCHESTER	COAL	2.00	23.00	

06301962000C PROJECT: RJJ-NCILL QUADRANGLE: LISBON
COUNTY: GRUNDY 34N - R 7E SECTION: 35 NENWNE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 523.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 26.00
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
523.00			UNCLASSIFIED	23.00	0.00	
500.00	CARBONDALE	COLCHESTER	COAL	3.00	23.00	

06302040000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
COUNTY: GRUNDY 33N - R 7E SECTION: 4 SENW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 523.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Survey Core Study Coal Test LOGGED (FT.): 34.80
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
523.00			UNCLASSIFIED	32.00	0.00	
491.00	CARBONDALE	COLCHESTER	COAL	2.80	32.00	

06302047000C PROJECT: RJJ-NCILL QUADRANGLE: MORRIS
COUNTY: GRUNDY 33N - R 7E SECTION: 15 SWSWSW
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 535.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
Drillers Log Water Well LOGGED (FT.): 13.00
SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
535.00			UNCLASSIFIED	12.00	0.00	
523.00	CARBONDALE	HOUCHIN CREEK	COAL	1.00	12.00	

06302058000C PROJECT: NCRDS87 QUADRANGLE: BUCKINGHAM * ALTERNATE DESCRIPTION ON FILE *
COUNTY: GRUNDY 31N - R 8E SECTION: 36 NWNESE
CONFIDENTIAL: N
SURFACE ELEVATION (FT.): 600.0 GEOLOGIST: WEIBEL DATE COLLECTED: 5 /19/1971
Survey Sample Study Diamond Drill LOGGED (FT.): 191.75
SOURCE: FIELD MUSEUM OF NATURAL HISTORY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.00			UNCONSOLIDATED	64.08	0.00	
535.90	CARBONDALE	TURNER MINE	BLACK SHALE	1.00	64.10	
534.90	CARBONDALE		SANDSTONE	3.75	65.10	
531.20	CARBONDALE	SPRINGFIELD	COAL	1.04	68.80	
530.10	CARBONDALE		UNDERCLAY	1.05	69.90	
529.10	CARBONDALE		SHALE	1.91	70.90	
527.20	CARBONDALE		SILTSTONE	13.59	72.80	
513.60	CARBONDALE		SHALE	12.41	86.40	
501.20	CARBONDALE		LIMESTONE	1.00	98.80	
500.20	CARBONDALE		SHALE	3.34	99.80	
496.80	CARBONDALE	EXCELLO	BLACK SHALE	6.83	103.20	
490.00	CARBONDALE	HOUCHIN CREEK	COAL	4.30	110.00	
485.70	CARBONDALE		SILTSTONE	0.60	114.30	
485.10	CARBONDALE		CLAYSTONE	3.77	114.90	
481.30	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.73	118.70	
480.60	CARBONDALE	FRANCIS CREEK	SHALE	49.02	119.40	
431.60	CARBONDALE	FRANCIS CREEK	CONGL	0.41	168.40	
431.20	CARBONDALE	COLCHESTER	COAL	3.17	168.80	
428.00	SPOON		CLAYSTONE	3.00	172.00	
425.00	SPOON		COAL	0.67	175.00	
424.30	SPOON		CLAYSTONE	4.33	175.70	
420.00	SPOON		LIMESTONE	3.00	180.00	
417.00	SPOON		SHALE	1.08	183.00	
415.90	SPOON		COAL	0.50	184.10	
415.40	SPOON		LIMESTONE	0.34	184.60	
415.10	SPOON		CLAYSTONE	0.70	184.90	
414.40	SPOON		BLACK SHALE	0.08	185.60	
414.30	SPOON		CLAYSTONE	1.30	185.70	
413.00	SPOON		SANDSTONE	4.75	187.00	

06302058000C PROJECT: RJJ-NCILL QUADRANGLE: BUCKINGHAM * ALTERNATE DESCRIPTION ON FILE *
 COUNTY: GRUNDY 31N - R 8E SECTION: 36 NWNESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 600.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Survey Core Study Coal Test LOGGED (FT.): 172.30
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.00			UNCLASSIFIED	69.00	0.00	
531.00	CARBONDALE	SPRINGFIELD	COAL	1.00	69.00	
530.00	CARBONDALE		UNCLASSIFIED	40.00	70.00	
490.00	CARBONDALE	HOUCHIN CREEK	COAL	4.20	110.00	
485.80	CARBONDALE		UNCLASSIFIED	54.80	114.20	
431.00	CARBONDALE	COLCHESTER	COAL	3.30	169.00	

06302081000C PROJECT: RJJ-NCILL QUADRANGLE: STAVANGER
 COUNTY: GRUNDY 34N - R 6E SECTION: 22 NESW
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 585.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 126.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.00			UNCLASSIFIED	124.00	0.00	
461.00	CARBONDALE	COLCHESTER	COAL	2.00	124.00	

06302229000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 28 SESESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 545.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:
 Drillers Log Water Well LOGGED (FT.): 75.00
 SOURCE: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
545.00			UNCLASSIFIED	70.00	0.00	
475.00	CARBONDALE	COLCHESTER	COAL	5.00	70.00	

063060D0001F PROJECT: BLM QUADRANGLE: SENECA
 COUNTY: GRUNDY 33N - R 6E SECTION: 14 MNWSENE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 500.0 GEOLOGIST: TREWORGY,J DATE COLLECTED: 0 / 0/1919
 Drillers Log LOGGED (FT.): 291.00
 SOURCE: FLD NOTES-CULVER

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.00			UNCONSOLIDATED	5.00	0.00	
495.00			ROCK	70.00	5.00	
425.00			COAL	2.00	75.00	
423.00			ROCK	214.00	77.00	

06322253000C PROJECT: RJJ-NCILL QUADRANGLE: COAL CITY
 COUNTY: GRUNDY 33N - R 8E SECTION: 28 SWNESE
 CONFIDENTIAL: N
 SURFACE ELEVATION (FT.): 545.0 GEOLOGIST: JACOBSON,R DATE COLLECTED:

