

Status Report



Total Records: 23

Top 3 County Records		Top 3 Log Type Records		Top 3 Coal Records		Top 3 Member Records	
Putnam	23	Drillers Log	23	COLCHESTER	20	COLCHESTER COAL	20
				SPRINGFIELD	14	HERRIN COAL	14
				HERRIN	14	SPRINGFIELD COAL	14

Data Summary

Cross-tabulation of all selected logs, individual logs will vary.
 Tabulation of logged intervals only, individual logs will vary.

Depth and Thickness measurements in feet

Member	Lithology	Avg. Depth	Min. Depth	Max. Depth	Avg. Thk	Min. Thk	Max. Thk
DANVILLE	COAL	251.0	251.0	251.0	3.5	3.5	3.5
BRERETON	LIMESTONE	201.5	201.5	201.5	0.2	0.2	0.2
ANNA	SHALE	154.1	36.0	272.2	2.9	2.8	3.0
HERRIN	COAL	224.0	39.0	305.9	2.7	0.5	3.7
TURNER MINE	SHALE	222.2	120.3	298.3	2.1	1.0	2.7
SPRINGFIELD	COAL	300.7	223.0	366.0	3.1	0.5	6.3
HANOVER	LIMESTONE	409.8	409.8	409.8	0.2	0.2	0.2
EXCELLO	SHALE	315.7	132.0	409.9	3.8	2.0	9.0
MECCA QUARRY	SHALE	348.8	196.5	476.0	2.8	0.9	5.0
FRANCIS CREEK	SANDSTONE	340.0	199.0	481.0	16.5	16.3	16.7
COLCHESTER	COAL	449.0	215.3	571.0	2.8	0.4	4.0
				Net Coal	12.0		

Coal Logs

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

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

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

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

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

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

MAPID: 15570006000C VERSION: 1 PROJECT: NCRDS
COUNTY: PUTNAM TWP/RNG: 31N 1W SECTION: 1 QUARTERS/FOOTAGES: 2490' N line, 1250' W line
QUADRANGLE: MCNABB LONGITUDE: -89.177836 GEOLOGIST: LOUCHIOS
CONFIDENTIAL: N LATITUDE: 41.185553 DATE COLLECTED: 0 / 0 / 1931
SURFACE ELEVATION (FT.): 713.0 LOGGED (FT.): 576.0 LOG TYPE: Drillers Log
SOURCE: UTAH INTERNATIONAL 27C1 WELL TYPE: Coal Test
COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
713.0			UNCLASSIFIED	173.5	0.0
539.5			COAL	0.4	173.5
539.1			UNCLASSIFIED	178.5	173.9
360.6	CARBONDALE	SPRINGFIELD	COAL	2.9	352.4
357.7	CARBONDALE		UNCLASSIFIED	215.7	355.3
142.0	CARBONDALE	COLCHESTER	COAL	2.9	571.0
139.1	CARBONDALE		CLAYSTONE	2.1	573.9

MAPID: 15570007000C VERSION: 1

PROJECT: NCRDS

COUNTY: PUTNAM TWP/RNG: 31N 1W SECTION: 2 QUARTERS/FOOTAGES: 1600' S line, 1180' W line

QUADRANGLE: MCNABB LONGITUDE: -89.197332 GEOLOGIST: LOUCHIOS

CONFIDENTIAL: N LATITUDE: 41.181715 DATE COLLECTED:

SURFACE ELEVATION (FT.): 690.0 LOGGED (FT.): 516.0 LOG TYPE: Drillers Log

SOURCE: UTAH INTERNATIONAL 28C19 WELL TYPE: Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
690.0			UNCLASSIFIED	303.0	0.0
387.0	CARBONDALE		DARK SHALE	2.9	303.0
384.1	CARBONDALE	HERRIN	COAL	3.4	305.9
380.7	CARBONDALE		UNCLASSIFIED	37.4	309.3
343.3	CARBONDALE		BLACK SHALE	19.3	346.7
324.0	CARBONDALE	SPRINGFIELD	COAL	6.3	366.0
317.7	CARBONDALE		UNCLASSIFIED	77.7	372.3
240.0	CARBONDALE		DARK SHALE	52.0	450.0
188.0	CARBONDALE	COLCHESTER	COAL	3.0	502.0
185.0	CARBONDALE		UNCLASSIFIED	11.0	505.0

MAPID: 15570008000C VERSION: 1

PROJECT: NCRDS

COUNTY: PUTNAM TWP/RNG: 31N 1W SECTION: 3 QUARTERS/FOOTAGES: 2240' S line, 1030' E line

QUADRANGLE: MCNABB LONGITUDE: -89.205363 GEOLOGIST: LOUCHIOS

CONFIDENTIAL: N LATITUDE: 41.183373 DATE COLLECTED: 0 / 0 / 1943

SURFACE ELEVATION (FT.): 700.0 LOGGED (FT.): 845.0 LOG TYPE: Drillers Log

SOURCE: UTAH INTERNATIONAL 29C20 WELL TYPE: Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
700.0			NO RECORD	121.0	0.0
579.0	CARBONDALE		COAL	3.0	121.0
576.0	CARBONDALE		UNCLASSIFIED	161.0	124.0
415.0	CARBONDALE		BLACK SHALE	15.0	285.0
400.0	CARBONDALE	SPRINGFIELD	COAL	3.0	300.0
397.0	CARBONDALE		UNCLASSIFIED	130.0	303.0
267.0	CARBONDALE		BLACK SHALE	3.0	433.0
264.0	CARBONDALE	COLCHESTER	COAL	4.0	436.0
260.0			UNCLASSIFIED	405.0	440.0

MAPID: 15570009000C VERSION: 1

PROJECT: NCRDS

COUNTY: PUTNAM TWP/RNG: 31N 1W SECTION: 9 QUARTERS/FOOTAGES: 700' N line, 1920' W line

QUADRANGLE: MCNABB LONGITUDE: -89.233951 GEOLOGIST: LOUCHIOS

CONFIDENTIAL: N LATITUDE: 41.175026 DATE COLLECTED:

SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 474.0 LOG TYPE: Drillers Log

SOURCE: UTAH INTERNATIONAL 30C22 WELL TYPE: Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			UNCLASSIFIED	226.3	0.0	
423.7	CARBONDALE		BLACK SHALE	0.5	226.3	
423.2	CARBONDALE	HERRIN	COAL	3.1	226.8	
420.1	CARBONDALE		CLAYSTONE	8.4	229.9	
411.7	CARBONDALE		LIMESTONE	0.7	238.3	
411.0	CARBONDALE		UNCLASSIFIED	211.0	239.0	
200.0	CARBONDALE		BLACK SHALE	4.0	450.0	
196.0	CARBONDALE	COLCHESTER	COAL	3.0	454.0	
193.0	CARBONDALE		UNCLASSIFIED	17.0	457.0	

MAPID: 15500002000C VERSION: 1

PROJECT: NCRDS87

COUNTY: PUTNAM TWP/RNG: 31N 1W SECTION: 10 QUARTERS/FOOTAGES: NW SE

QUADRANGLE: MCNABB LONGITUDE: -89.209096 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 41.16798 DATE COLLECTED:

SURFACE ELEVATION (FT.): 668.0 LOGGED (FT.): 494.4 LOG TYPE: Drillers Log

SOURCE: MINERAL POINT ZINC WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
668.0			UNCONSOLIDATED	117.0	0.0
551.0	MODESTO		SHALE	25.0	117.0
526.0	MODESTO		LIMESTONE	1.0	142.0
525.0	MODESTO		SHALE	15.0	143.0
510.0	MODESTO		LIMESTONE	3.0	158.0
507.0	MODESTO		UNCLASSIFIED	82.0	161.0
425.0	MODESTO		DARK SHALE	8.0	243.0
417.0	CARBONDALE	DANVILLE	COAL	3.5	251.0
413.5	CARBONDALE		UNDERCLAY	7.5	254.5
406.0	CARBONDALE		SHALE	10.2	262.0
395.8	CARBONDALE	ANNA	BLACK SHALE	2.8	272.2
393.0	CARBONDALE	HERRIN	COAL	0.5	275.0
392.5	CARBONDALE		UNDERCLAY	1.0	275.5
391.5	CARBONDALE		SHALE	15.0	276.5
376.5	CARBONDALE		UNCLASSIFIED	25.5	291.5
351.0	CARBONDALE		SANDSTONE	67.8	317.0
283.2	CARBONDALE		UNCLASSIFIED	25.0	384.8
258.2	CARBONDALE	HANOVER	LIMESTONE	0.2	409.8
258.1	CARBONDALE	EXCELLO	BLACK SHALE	2.3	409.9
255.8	CARBONDALE		UNDERCLAY	6.8	412.2
249.0	CARBONDALE		UNCLASSIFIED	9.0	419.0
240.0	CARBONDALE		SHALE	45.4	428.0
194.6	CARBONDALE		DARK SHALE	11.9	473.4
182.7	CARBONDALE	COLCHESTER	COAL	3.1	485.3
179.6			UNDERCLAY	2.6	488.4

MAPID: 15570010000C VERSION: 1

PROJECT: NCRDS

COUNTY: PUTNAM TWP/RNG: 31N 1W SECTION: 10 QUARTERS/FOOTAGES: 2050' S line, 1860' E line

QUADRANGLE: MCNABB LONGITUDE: -89.208457 GEOLOGIST: LOUCHIOS

CONFIDENTIAL: N LATITUDE: 41.168147 DATE COLLECTED:

SURFACE ELEVATION (FT.): 675.0 LOGGED (FT.): 491.0 LOG TYPE: Drillers Log

SOURCE: UTAH INTERNATIONAL 31C2 WELL TYPE: Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
675.0			UNCLASSIFIED	243.0	0.0	
432.0	CARBONDALE		BLACK SHALE	8.0	243.0	
424.0	CARBONDALE	HERRIN	COAL	3.5	251.0	
420.5	CARBONDALE		UNCLASSIFIED	168.5	254.5	
252.0	CARBONDALE		SHALE	62.3	423.0	
189.7	CARBONDALE	COLCHESTER	COAL	3.1	485.3	
186.6	CARBONDALE		CLAYSTONE	2.6	488.4	

MAPID: 15570011000C VERSION: 1

PROJECT: NCRDS

COUNTY: PUTNAM TWP/RNG: 31N 1W SECTION: 11 QUARTERS/FOOTAGES: 800' S line, 1350' W line

QUADRANGLE: MCNABB LONGITUDE: -89.19672 GEOLOGIST: LOUCHIOS

CONFIDENTIAL: N LATITUDE: 41.164758 DATE COLLECTED:

SURFACE ELEVATION (FT.): 660.0 LOGGED (FT.): 574.0 LOG TYPE: Drillers Log

SOURCE: UTAH INTERNATIONAL 32C24 WELL TYPE: Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
660.0			UNCLASSIFIED	248.0	0.0	
412.0	CARBONDALE		BLACK SHALE	1.7	248.0	
410.3	CARBONDALE	HERRIN	COAL	3.0	249.7	
407.3	CARBONDALE		UNCLASSIFIED	197.3	252.7	
210.0	CARBONDALE		BLACK SHALE	38.6	450.0	
171.4	CARBONDALE	COLCHESTER	COAL	0.4	488.6	
171.0			UNCLASSIFIED	69.0	489.0	
102.0			COAL	0.1	558.0	
101.9			UNCLASSIFIED	15.9	558.1	

MAPID: 15570012000C VERSION: 1

PROJECT: NCRDS

COUNTY: PUTNAM TWP/RNG: 31N 1W SECTION: 14 QUARTERS/FOOTAGES: 1870' S line, 2660' W line
 QUADRANGLE: MCNABB LONGITUDE: -89.191979 GEOLOGIST: LOUCHIOS
 CONFIDENTIAL: N LATITUDE: 41.152838 DATE COLLECTED: 0 / 0 / 1905
 SURFACE ELEVATION (FT.): 665.0 LOGGED (FT.): 501.0 LOG TYPE: Drillers Log
 SOURCE: UTAH INTERNATIONAL 33C3 WELL TYPE: Coal Test
 COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
665.0			UNCLASSIFIED	286.1	0.0	
378.9	CARBONDALE	HERRIN	COAL	3.6	286.1	
375.3	CARBONDALE		UNCLASSIFIED	43.5	289.7	
331.8	CARBONDALE	SPRINGFIELD	COAL	4.2	333.2	UNCERTAIN CORRELATION
327.6	CARBONDALE		UNCLASSIFIED	159.5	337.4	
168.1	CARBONDALE	COLCHESTER	COAL	3.4	496.9	
164.7	CARBONDALE		CLAYSTONE	0.7	500.3	

MAPID: 15570016000C VERSION: 1

PROJECT: NCRDS

COUNTY: PUTNAM TWP/RNG: 31N 1W SECTION: 18 QUARTERS/FOOTAGES: 580' S line, 1900' E line
 QUADRANGLE: FLORID LONGITUDE: -89.267023 GEOLOGIST: LOUCHIOS
 CONFIDENTIAL: N LATITUDE: 41.14921 DATE COLLECTED: 0 / 0 / 1905
 SURFACE ELEVATION (FT.): 512.0 LOGGED (FT.): 269.0 LOG TYPE: Drillers Log
 SOURCE: UTAH INTERNATIONAL 02C7 WELL TYPE: Coal Test
 COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
512.0			NO RECORD	130.0	0.0	
382.0			SHALE	77.0	130.0	
305.0			DARK SHALE	3.0	207.0	
302.0			LIMESTONE	10.0	210.0	
292.0			SHALE	25.0	220.0	
267.0			LIMESTONE	1.0	245.0	
266.0			GRAY SHALE	10.0	246.0	
256.0			GREEN SHALE	10.3	256.0	
245.7	CARBONDALE	SPRINGFIELD	COAL	2.1	266.3	
243.6			CLAYSTONE	0.6	268.4	

MAPID: 15500016000C VERSION: 1

PROJECT: NCRDS87

COUNTY: PUTNAM TWP/RNG: 31N 2W SECTION: 26 QUARTERS/FOOTAGES: SW SW

QUADRANGLE: HENRY LONGITUDE: -89.316439 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 41.120092 DATE COLLECTED: 11 / 0 / 1905

SURFACE ELEVATION (FT.): 447.3 LOGGED (FT.): 219.0 LOG TYPE: Drillers Log

SOURCE: CHERRY OPTION SYNDICATE WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
447.3			UNCONSOLIDATED	36.0	0.0
411.3	CARBONDALE	ANNA	BLACK SHALE	3.0	36.0
408.3	CARBONDALE	HERRIN	COAL	2.5	39.0
405.8	CARBONDALE		UNDERCLAY	4.5	41.5
401.3	CARBONDALE		SANDSTONE	25.0	46.0
376.3	CARBONDALE		SHALE	43.0	71.0
333.3	CARBONDALE		DARK SHALE	6.3	114.0
327.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.7	120.3
324.3	CARBONDALE		SHALE	9.0	123.0
315.3	CARBONDALE	EXCELLO	BLACK SHALE	2.0	132.0
313.3	CARBONDALE		SHALE	27.0	134.0
286.3	CARBONDALE		GRAY SHALE	26.0	161.0
260.3	CARBONDALE		DARK SHALE	9.5	187.0
250.8	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.5	196.5
248.3	CARBONDALE	FRANCIS CREEK	SHALE	16.3	199.0
232.0	CARBONDALE	COLCHESTER	COAL	2.8	215.3
229.2	SPOON		UNDERCLAY	0.9	218.1

MAPID: 15570003000C VERSION: 1

PROJECT: NCRDS

COUNTY: PUTNAM TWP/RNG: 32N 1W SECTION: 3 QUARTERS/FOOTAGES: 880' N line, 350' W line

QUADRANGLE: SPRING VALLEY LONGITUDE: -89.220385 GEOLOGIST: LOUCHIOS

CONFIDENTIAL: N LATITUDE: 41.27713 DATE COLLECTED:

SURFACE ELEVATION (FT.): 612.0 LOGGED (FT.): 434.0 LOG TYPE: Drillers Log

SOURCE: UTAH INTERNATIONAL 06C8 WELL TYPE: Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
612.0			UNCLASSIFIED	189.0	0.0
423.0			DARK SHALE	20.0	189.0
403.0			COAL	2.0	209.0
401.0			UNCLASSIFIED	33.0	211.0
368.0			COAL	3.0	244.0 IMPURE
365.0			UNCLASSIFIED	178.0	247.0
187.0			COAL	3.0	425.0
184.0			CLAYSTONE	6.0	428.0

MAPID: 15570002000C VERSION: 1

PROJECT: NCRDS

COUNTY: PUTNAM TWP/RNG: 32N 1W SECTION: 5 QUARTERS/FOOTAGES: 690' S line, 180' E line

QUADRANGLE: SPRING VALLEY LONGITUDE: -89.241359 GEOLOGIST: LOUCHIOS

CONFIDENTIAL: N LATITUDE: 41.266626 DATE COLLECTED: 0 / 0 / 1904

SURFACE ELEVATION (FT.): 687.0 LOGGED (FT.): 424.0 LOG TYPE: Drillers Log

SOURCE: UTAH INTERNATIONAL 07C29 WELL TYPE: Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
687.0			UNCLASSIFIED	190.0	0.0
497.0	CARBONDALE	HERRIN	COAL	3.5	190.0
493.5	CARBONDALE		UNCLASSIFIED	29.5	193.5
464.0	CARBONDALE	SPRINGFIELD	COAL	3.0	223.0
461.0	CARBONDALE		UNCLASSIFIED	195.0	226.0
266.0	CARBONDALE	COLCHESTER	COAL	3.0	421.0

MAPID: 15570001000C VERSION: 1

PROJECT: NCRDS

COUNTY: PUTNAM TWP/RNG: 32N 1W SECTION: 9 QUARTERS/FOOTAGES: 2010' N line, 450' E line

QUADRANGLE: SPRING VALLEY LONGITUDE: -89.223126 GEOLOGIST: LOUCHIOS

CONFIDENTIAL: N LATITUDE: 41.259206 DATE COLLECTED:

SURFACE ELEVATION (FT.): 685.0 LOGGED (FT.): 477.0 LOG TYPE: Drillers Log

SOURCE: UTAH INTERNATIONAL 08C32 WELL TYPE: Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
685.0			UNCLASSIFIED	254.0	0.0
431.0	CARBONDALE	HERRIN	COAL	3.7	254.0
427.3	CARBONDALE		CLAYSTONE	4.3	257.7
423.0	CARBONDALE		UNCLASSIFIED	31.5	262.0
391.5	CARBONDALE	SPRINGFIELD	COAL	3.5	293.5
388.0	CARBONDALE		UNCLASSIFIED	170.0	297.0
218.0	CARBONDALE		DARK SHALE	1.3	467.0
216.7	CARBONDALE	COLCHESTER	COAL	3.4	468.3
213.3	CARBONDALE		UNCLASSIFIED	5.3	471.7

MAPID: 15500009000C VERSION: 1

PROJECT: NCRDS87

COUNTY: PUTNAM TWP/RNG: 32N 1W SECTION: 11 QUARTERS/FOOTAGES: 1200' S line, 250' E line

QUADRANGLE: SPRING VALLEY LONGITUDE: -89.18325 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 41.253694 DATE COLLECTED:

SURFACE ELEVATION (FT.): 680.0 LOGGED (FT.): 515.9 LOG TYPE: Drillers Log

SOURCE: B.F. BERRY COAL WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.0			UNCONSOLIDATED	99.3	0.0
580.7	MODESTO		SHALE	9.3	99.3
571.4	MODESTO		LIMESTONE	5.0	108.6
566.4	MODESTO		BLACK SHALE	4.0	113.6
562.4	MODESTO		GRAY SHALE	2.6	117.6
559.8	MODESTO		COAL	0.3	120.2
559.5	MODESTO		UNDERCLAY	7.5	120.5
552.0	MODESTO		UNCLASSIFIED	50.3	128.0
501.7	MODESTO		GRAY SHALE	15.0	178.3
486.7	MODESTO		UNDERCLAY	6.0	193.3
480.7	MODESTO		UNCLASSIFIED	2.0	199.3
478.7	MODESTO		LIMESTONE	2.0	201.3
476.7	CARBONDALE		CONGLOMERATE	2.0	203.3
474.7	CARBONDALE		SHALE	3.0	205.3
471.7	CARBONDALE		UNCLASSIFIED	45.0	208.3
426.7	CARBONDALE		SHALE	9.6	253.3
417.1	CARBONDALE		GRAY SHALE	2.1	262.9
415.0	CARBONDALE		DARK SHALE	19.0	265.0
396.0	CARBONDALE	HERRIN	COAL	3.0	284.0
393.0	CARBONDALE		UNDERCLAY	11.3	287.0
381.7	CARBONDALE		SHALE	15.7	298.3
366.0	CARBONDALE		UNCLASSIFIED	7.3	314.0
358.7	CARBONDALE	SPRINGFIELD	COAL	0.5	321.3
358.2	CARBONDALE		UNDERCLAY	3.3	321.8
354.8	CARBONDALE		SANDSTONE	12.3	325.2
342.5	CARBONDALE		UNCLASSIFIED	51.3	337.5
291.2	CARBONDALE		GRAY SHALE	12.3	388.8
278.8	CARBONDALE		SHALE	3.8	401.2
275.0	CARBONDALE	EXCELLO	BLACK SHALE	9.0	405.0
266.0	CARBONDALE		SHALE	4.8	414.0
261.2	CARBONDALE		UNCLASSIFIED	7.0	418.8
254.2	CARBONDALE		DARK SHALE	4.2	425.8
250.0	CARBONDALE		UNCLASSIFIED	25.0	430.0
225.0	CARBONDALE		GRAY SHALE	12.3	455.0
212.7	CARBONDALE		SHALE	8.8	467.3
204.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	5.0	476.0
199.0	CARBONDALE	FRANCIS CREEK	SHALE	16.7	481.0
182.3	CARBONDALE	COLCHESTER	COAL	3.0	497.7
179.3	SPOON		UNDERCLAY	1.3	500.7

178.1 SPOON SANDSTONE 4.0 501.9
 174.1 SPOON UNCLASSIFIED 10.0 505.9

MAPID: 1557000000C **VERSION:** 1 **PROJECT:** NCRDS
COUNTY: PUTNAM **TWP/RNG:** 32N 1W **SECTION:** 11 **QUARTERS/FOOTAGES:** 1330' S line, 260' E line
QUADRANGLE: SPRING VALLEY **LONGITUDE:** -89.183292 **GEOLOGIST:** LOUCHIOS
CONFIDENTIAL: N **LATITUDE:** 41.254053 **DATE COLLECTED:** 0 / 0 / 1914
SURFACE ELEVATION (FT.): 680.0 **LOGGED (FT.):** 600.0 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL 09C33 **WELL TYPE:** Coal Test
COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
680.0			NO RECORD	96.5	0.0
583.5	SHELBURN		LIMESTONE	20.5	96.5
563.0	SHELBURN		SHALE	17.0	117.0
546.0	SHELBURN		LIMESTONE	12.0	134.0
534.0	SHELBURN		SHALE	60.0	146.0
474.0	SHELBURN		RED SHALE	18.0	206.0
456.0	SHELBURN		SHALE	67.0	224.0
389.0	CARBONDALE	HERRIN	COAL	3.0	291.0
386.0	CARBONDALE		SHALE	27.0	294.0
359.0	CARBONDALE	SPRINGFIELD	COAL	1.0	321.0
358.0	CARBONDALE		SHALE	180.0	322.0
178.0	CARBONDALE	COLCHESTER	COAL	3.0	502.0
175.0	CARBONDALE		SHALE	60.0	505.0
115.0	CARBONDALE		SANDSTONE	35.0	565.0

MAPID: 15570015000C **VERSION:** 1 **PROJECT:** NCRDS
COUNTY: PUTNAM **TWP/RNG:** 32N 1W **SECTION:** 17 **QUARTERS/FOOTAGES:** 200' N line, 730' E line
QUADRANGLE: MCNABB **LONGITUDE:** -89.24313 **GEOLOGIST:** LOUCHIOS
CONFIDENTIAL: N **LATITUDE:** 41.249464 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 745.0 **LOGGED (FT.):** 302.0 **LOG TYPE:** Drillers Log
SOURCE: UTAH INTERNATIONAL 22C34 **WELL TYPE:** Coal Test
COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
745.0			NO RECORD	248.0	0.0
497.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	248.0
496.0	CARBONDALE	SPRINGFIELD	COAL	2.0	249.0
494.0	CARBONDALE		CLAYSTONE	5.0	251.0
489.0	CARBONDALE		SANDSTONE	25.0	256.0
464.0	CARBONDALE		SHALE	20.0	281.0
444.0	CARBONDALE		LIMESTONE	1.0	301.0

MAPID: 15570014000C VERSION: 1

PROJECT: NCRDS

COUNTY: PUTNAM TWP/RNG: 32N 1W SECTION: 20 QUARTERS/FOOTAGES: 800' N line, 1610' E line
 QUADRANGLE: MCNABB LONGITUDE: -89.245934 GEOLOGIST: LOUCHIOS
 CONFIDENTIAL: N LATITUDE: 41.233365 DATE COLLECTED: 0 / 0 / 1905
 SURFACE ELEVATION (FT.): 731.0 LOGGED (FT.): 475.0 LOG TYPE: Drillers Log
 SOURCE: UTAH INTERNATIONAL 23C36 WELL TYPE: Coal Test
 COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
731.0			UNCLASSIFIED	214.0	0.0	
517.0	CARBONDALE	HERRIN	COAL	3.0	214.0	
514.0	CARBONDALE		UNCLASSIFIED	48.0	217.0	
466.0	CARBONDALE	SPRINGFIELD	COAL	5.7	265.0	
460.3	CARBONDALE		UNCLASSIFIED	136.8	270.7	
323.5	CARBONDALE	COLCHESTER	COAL	3.5	407.5	
320.0	CARBONDALE		UNCLASSIFIED	64.0	411.0	

MAPID: 15570013000C VERSION: 1

PROJECT: NCRDS

COUNTY: PUTNAM TWP/RNG: 32N 1W SECTION: 23 QUARTERS/FOOTAGES: 570' N line, 1320' E line
 QUADRANGLE: MCNABB LONGITUDE: -89.187342 GEOLOGIST: LOUCHIOS
 CONFIDENTIAL: N LATITUDE: 41.234479 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 693.0 LOGGED (FT.): 557.0 LOG TYPE: Drillers Log
 SOURCE: UTAH INTERNATIONAL 24C37 WELL TYPE: Coal Test
 COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
693.0			UNCLASSIFIED	303.9	0.0	
389.1	CARBONDALE	SPRINGFIELD	COAL	3.3	303.9	
385.8	CARBONDALE		UNCLASSIFIED	235.8	307.2	
150.0	CARBONDALE	COLCHESTER	COAL	3.0	543.0	
147.0	CARBONDALE		SHALE & SANDSTONE	5.0	546.0	INTERBEDDED
142.0	CARBONDALE		SHALE	6.0	551.0	

MAPID: 15570004000C VERSION: 1

PROJECT: NCRDS

COUNTY: PUTNAM TWP/RNG: 32N 1W SECTION: 33 QUARTERS/FOOTAGES: 1730' S line, 1910' W line

QUADRANGLE: MCNABB LONGITUDE: -89.232823 GEOLOGIST: LOUCHIOS

CONFIDENTIAL: N LATITUDE: 41.196774 DATE COLLECTED: 0 / 0 / 1905

SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 538.0 LOG TYPE: Drillers Log

SOURCE: UTAH INTERNATIONAL 25C40 WELL TYPE: Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
650.0			UNCLASSIFIED	279.2	0.0	
370.8	CARBONDALE	SPRINGFIELD	COAL	3.6	279.2	
367.2			UNCLASSIFIED	157.4	282.8	
209.8	CARBONDALE	COLCHESTER	COAL	1.8	440.2	
208.0			UNCLASSIFIED	86.6	442.0	
121.4			COAL	0.2	528.6	
121.2			UNCLASSIFIED	6.7	528.8	
114.5			COAL	0.5	535.5	
114.0			UNCLASSIFIED	2.0	536.0	

MAPID: 15570005000C VERSION: 1

PROJECT: NCRDS

COUNTY: PUTNAM TWP/RNG: 32N 1W SECTION: 35 QUARTERS/FOOTAGES: 2220' N line, 1980' W line

QUADRANGLE: MCNABB LONGITUDE: -89.194248 GEOLOGIST: LOUCHIOS

CONFIDENTIAL: N LATITUDE: 41.20056 DATE COLLECTED:

SURFACE ELEVATION (FT.): 722.0 LOGGED (FT.): 570.0 LOG TYPE: Drillers Log

SOURCE: UTAH INTERNATIONAL 26C11 WELL TYPE: Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
722.0			UNCLASSIFIED	335.0	0.0	
387.0			COAL	0.3	335.0	
386.7			CLAYSTONE	0.3	335.3	
386.4	CARBONDALE	SPRINGFIELD	COAL	2.1	335.6	UNCERTAIN CORRELATION
384.3			UNCLASSIFIED	223.8	337.7	
160.5	CARBONDALE	COLCHESTER	COAL	3.1	561.5	
157.4			CLAYSTONE	5.4	564.6	

MAPID: 15500041000C VERSION: 1

PROJECT: NCRDS87

COUNTY: PUTNAM TWP/RNG: 32N 2W SECTION: 1 QUARTERS/FOOTAGES: SE

QUADRANGLE: DEPUE LONGITUDE: -89.285344 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 41.267728 DATE COLLECTED:

SURFACE ELEVATION (FT.): 650.0 LOGGED (FT.): 510.0 LOG TYPE: Drillers Log

SOURCE: ST. PAUL & BRACEVILLE COAL CO. WELL TYPE: Coal Test

COMMENT: ELEVATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
650.0			UNCONSOLIDATED	200.0	0.0
450.0	CARBONDALE		SHALE	1.5	200.0
448.5	CARBONDALE	BRERETON	LIMESTONE	0.2	201.5
448.3	CARBONDALE		SHALE	3.0	201.7
445.3	CARBONDALE	HERRIN	COAL	0.8	204.7
444.5	CARBONDALE		SHALE	19.5	205.5
425.0	CARBONDALE		SANDSTONE	13.0	225.0
412.0	CARBONDALE		SHALE	2.0	238.0
410.0	CARBONDALE		SANDSTONE	5.0	240.0
405.0	CARBONDALE		SHALE	53.3	245.0
351.7	CARBONDALE	TURNER MINE	BLACK SHALE	2.7	298.3
349.0	CARBONDALE		SHALE	2.0	301.0
347.0	CARBONDALE		UNCLASSIFIED	13.0	303.0
334.0	CARBONDALE	EXCELLO	BLACK SHALE	2.0	316.0
332.0	CARBONDALE		SHALE	8.0	318.0
324.0	CARBONDALE		LIMESTONE	2.0	326.0
322.0	CARBONDALE		SHALE	34.0	328.0
288.0	CARBONDALE		DARK SHALE	12.0	362.0
276.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.9	374.0
275.1	CARBONDALE	COLCHESTER	COAL	0.8	374.9
274.2			SHALE	0.8	375.8
273.4			GRAY SHALE	6.4	376.6
267.0			SHALE	2.8	383.0
264.2			COAL	3.3	385.8
260.9			SHALE	10.9	389.1
250.0			SANDSTONE	4.0	400.0
246.0			SHALE	9.0	404.0
237.0			BLACK SHALE	5.7	413.0
231.3			GRAY SHALE	1.0	418.7
230.3			BLACK SHALE	0.4	419.7
229.9			COAL	1.8	420.1
228.2			SHALE	16.2	421.8
212.0			SANDSTONE	5.0	438.0
207.0			SHALE	14.0	443.0
193.0			COAL	0.5	457.0
192.5			SHALE	6.5	457.5
186.0			GRAY SHALE	4.0	464.0
182.0			BLACK SHALE	0.5	468.0
181.5			SANDSTONE	2.5	468.5

179.0	SHALE	3.0	471.0
176.0	DARK SHALE	2.0	474.0
174.0	SHALE	3.0	476.0
171.0	DARK SHALE	1.0	479.0
170.0	COAL	0.5	480.0
169.5	SHALE	2.0	480.5
167.5	SANDSTONE	3.5	482.5
164.0	SHALE	3.5	486.0
160.5	COAL	0.5	489.5
160.0	SHALE	7.0	490.0
153.0	LIMESTONE	13.0	497.0

MAPID: 15570017000C VERSION: 1

PROJECT: NCRDS

COUNTY: PUTNAM TWP/RNG: 32N 2W SECTION: 23 QUARTERS/FOOTAGES: 230' N line, 510' E line

QUADRANGLE: FLORID LONGITUDE: -89.301292 GEOLOGIST: LOUCHIOS

CONFIDENTIAL: N LATITUDE: 41.234255 DATE COLLECTED: 0 / 0 / 1905

SURFACE ELEVATION (FT.): 614.0 LOGGED (FT.): 358.0 LOG TYPE: Drillers Log

SOURCE: UTAH INTERNATIONAL 01C13 WELL TYPE: Coal Test

COMMENT: CODED COAL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
614.0			NO RECORD	205.0	0.0	
409.0			SHALE	3.0	205.0	
406.0			SANDY SHALE	2.0	208.0	
404.0			SANDSTONE	22.0	210.0	
382.0			LIMESTONE	2.0	232.0	
380.0			SANDSTONE	18.0	234.0	
362.0			LIMESTONE	2.0	252.0	
360.0			SHALE	10.0	254.0	
350.0			LIMESTONE	3.0	264.0	
347.0			BLACK SHALE	7.0	267.0	
340.0			SHALE	7.3	274.0	
332.7			LIMESTONE	0.5	281.3	
332.2			SHALE	12.7	281.8	
319.5			LIMESTONE	3.5	294.5	
316.0			SHALE	10.0	298.0	
306.0			SANDY SHALE	3.0	308.0	
303.0			SHALE	6.8	311.0	
296.2			LIMESTONE	0.3	317.8	
295.9			SHALE	16.9	318.1	
279.0			LIMESTONE	0.6	335.0	
278.4			SHALE	6.7	335.6	
271.7			BLACK SHALE	3.0	342.3	
268.7			GREEN SHALE	7.5	345.3	
261.2	CARBONDALE	COLCHESTER	COAL	2.0	352.8	
259.2			CLAYSTONE	3.2	354.8	

MAPID: 15500015000C VERSION: 1

PROJECT: NCRDS87

COUNTY: PUTNAM TWP/RNG: 33N 1W SECTION: 30 QUARTERS/FOOTAGES: SW NW

QUADRANGLE: DEPUE LONGITUDE: -89.278503 GEOLOGIST: WEIBEL

CONFIDENTIAL: N LATITUDE: 41.302554 DATE COLLECTED:

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 373.0 LOG TYPE: Drillers Log

SOURCE: WHITEBREAST FUEL CO. 3 WELL TYPE: Coal Test

COMMENT: LOCATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0			UNCONSOLIDATED	45.0	0.0	
430.0	CARBONDALE		SANDSTONE	5.0	45.0	
425.0	CARBONDALE		SHALE	15.0	50.0	
410.0	CARBONDALE	HERRIN	COAL	1.0	65.0	UNCERTAIN CORRELATION
409.0	CARBONDALE		UNDERCLAY	4.0	66.0	
405.0	CARBONDALE		UNCLASSIFIED	23.0	70.0	
382.0	CARBONDALE		SANDSTONE	77.0	93.0	
305.0	CARBONDALE		SHALE	52.0	170.0	
253.0	CARBONDALE		LIMESTONE	2.0	222.0	
251.0	CARBONDALE		DARK SHALE	29.0	224.0	
222.0	CARBONDALE		SHALE	17.0	253.0	
205.0	CARBONDALE		DARK SHALE	6.0	270.0	
199.0	CARBONDALE	COLCHESTER	COAL	3.0	276.0	UNCERTAIN CORRELATION
196.0	SPOON		UNDERCLAY	3.0	279.0	
193.0	SPOON		LIMESTONE	2.0	282.0	
191.0	SPOON		SHALE	55.0	284.0	
136.0	SPOON		BLACK SHALE	1.0	339.0	
135.0	SPOON		SANDSTONE	13.0	340.0	
122.0	SPOON		LIMESTONE	20.0	353.0	