

**Total Records: 439**

Top 3 County Records		Top 3 Log Type Records		Top 3 Coal Records		Top 3 Member Records	
Crawford	439	Electric Log	340	DANVILLE	420	DANVILLE COAL	420
		Drillers Log	40	SPRINGFIELD	412	SPRINGFIELD COAL	412
		Nuclear Log	39	JAMESTOWN	403	JAMESTOWN COAL	403

**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
<b>SURVANT - LOWER</b>		<b>746.2</b>	723.8	765.9	<b>2.2</b>	2.0	2.3
<b>SURVANT - UPPER</b>		<b>738.9</b>	709.0	763.6	<b>1.3</b>	0.4	2.6
<b>COHN</b>	COAL	<b>77.0</b>	73.0	81.2	<b>1.2</b>	0.8	1.8
<b>MILLERSVILLE</b>	LIMESTONE	<b>99.3</b>	49.0	135.0	<b>6.3</b>	2.0	32.0
<b>LIVINGSTON</b>	LIMESTONE	<b>132.6</b>	116.0	140.3	<b>3.2</b>	1.0	5.0
<b>BRISTOL HILL</b>	COAL	<b>116.1</b>	55.0	148.6	<b>1.0</b>	0.2	2.0
<b>WITT</b>	COAL	<b>155.9</b>	103.0	193.5	<b>0.9</b>	0.1	1.4
<b>FLAT CREEK</b>	COAL	<b>178.2</b>	178.2	178.2	<b>4.0</b>	4.0	4.0
<b>FLANNIGAN</b>	COAL	<b>187.2</b>	133.5	225.0	<b>1.8</b>	0.4	4.0
<b>CARTHAGE</b>	LIMESTONE	<b>206.2</b>	104.0	287.1	<b>3.8</b>	1.0	9.0
<b>NEW HAVEN</b>	COAL	<b>257.5</b>	213.8	301.5	<b>0.9</b>	0.5	1.3
<b>WOMAC</b>	COAL	<b>289.8</b>	278.0	301.5	<b>0.5</b>	0.5	0.5
<b>CHAPEL</b>	COAL	<b>309.5</b>	126.0	381.0	<b>1.1</b>	0.5	2.0
<b>TRIVOLI</b>	SANDSTONE	<b>340.0</b>	257.0	429.0	<b>76.5</b>	58.0	96.0
<b>WEST FRANKLIN</b>	LIMESTONE	<b>350.8</b>	122.0	802.0	<b>5.5</b>	2.0	30.0
<b>PIRTLE (IN)</b>	COAL	<b>343.2</b>	289.6	415.3	<b>0.6</b>	0.2	1.0
<b>DANVILLE</b>	COAL	<b>442.7</b>	232.0	907.0	<b>3.1</b>	1.0	5.0
<b>JAMESTOWN</b>	COAL	<b>484.4</b>	265.0	969.0	<b>3.2</b>	1.0	5.6
<b>BRERETON</b>	LIMESTONE	<b>440.8</b>	440.8	440.8	<b>1.8</b>	1.8	1.8
<b>HERRIN</b>	COAL	<b>497.9</b>	275.0	980.0	<b>2.1</b>	0.5	5.0
<b>BRIAR HILL</b>	COAL	<b>487.3</b>	373.3	611.3	<b>2.1</b>	0.7	3.3
<b>ST. DAVID</b>	LIMESTONE	<b>485.5</b>	391.4	550.0	<b>2.8</b>	0.7	4.0
<b>TURNER MINE</b>	SHALE	<b>484.9</b>	393.9	551.0	<b>1.3</b>	0.3	3.5
<b>SPRINGFIELD</b>	COAL	<b>550.4</b>	318.0	1037.0	<b>2.8</b>	1.5	5.0
<b>HANOVER</b>	LIMESTONE	<b>613.0</b>	602.0	624.0	<b>3.0</b>	1.0	5.0
<b>EXCELLO</b>	SHALE	<b>607.5</b>	541.5	655.0	<b>5.4</b>	1.5	10.0
<b>HOUCHIN CREEK</b>	COAL	<b>634.5</b>	370.0	1130.0	<b>1.7</b>	0.3	3.3
<b>PLEASANTVIEW</b>	SANDSTONE	<b>615.5</b>	575.0	656.0	<b>57.4</b>	31.8	83.0
<b>SURVANT</b>	COAL	<b>673.0</b>	590.3	718.8	<b>1.7</b>	0.7	4.4
<b>OAK GROVE</b>	LIMESTONE	<b>809.0</b>	809.0	809.0	<b>1.0</b>	1.0	1.0

<b>MECCA QUARRY</b>	SHALE	<b>692.5</b>	625.0	810.0	<b>4.1</b>	0.5	9.0
<b>COLCHESTER</b>	COAL	<b>737.0</b>	450.0	1256.0	<b>1.4</b>	0.4	7.0
<b>SEELYVILLE</b>	COAL	<b>758.5</b>	475.0	1288.0	<b>5.3</b>	2.0	14.4
<b>SEAHORNE LS</b>	LIMESTONE	<b>698.7</b>	669.8	727.5	<b>1.4</b>	1.0	1.8
				<b>Net Coal</b>	<b>35.3</b>		

## 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:** 03300168000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 5N 10W    **SECTION:** 4    **QUARTERS/FOOTAGES:** 2801' N line, 817' W line  
**QUADRANGLE:** HEATHSVILLE    **LONGITUDE:** -87.535044    **GEOLOGIST:** C TREWORGY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.905104    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 442.0    **LOGGED (FT.):** 565.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
277.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	165.0
188.0	CARBONDALE	DANVILLE	COAL	2.5	254.0
144.0	CARBONDALE	JAMESTOWN	COAL	-	298.0
142.0	CARBONDALE	HERRIN	COAL	-	300.0
78.0	CARBONDALE	SPRINGFIELD	COAL	3.5	364.0
-30.0	CARBONDALE	HOUCHIN CREEK	COAL	-	472.0
-123.0	CARBONDALE	COLCHESTER	COAL	-	565.0

MAPID: 03308282000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 10W SECTION: 5 QUARTERS/FOOTAGES: 1650' N line, 1090' W line of SE

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.543714 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.900197 DATE COLLECTED:

SURFACE ELEVATION (FT.): 448.0 LOGGED (FT.): 582.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
263.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	185.0
182.0	CARBONDALE	DANVILLE	COAL	2.0	266.0
136.0	CARBONDALE	JAMESTOWN	COAL	3.5	312.0
128.0	CARBONDALE	HERRIN	COAL	-	320.0
71.0	CARBONDALE	SPRINGFIELD	COAL	2.5	377.0
-36.0	CARBONDALE	HOUCHIN CREEK	COAL	-	484.0
-134.0	CARBONDALE	COLCHESTER	COAL	-	582.0

MAPID: 03302488000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 10W SECTION: 7 QUARTERS/FOOTAGES: 173' N line, 580' W line of SE NE SW

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.566608 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.886577 DATE COLLECTED:

SURFACE ELEVATION (FT.): 497.0 LOGGED (FT.): 654.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
292.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	205.0
195.0	CARBONDALE	DANVILLE	COAL	3.0	302.0
147.0	CARBONDALE	JAMESTOWN	COAL	3.5	350.0
138.0	CARBONDALE	HERRIN	COAL	-	359.0
80.0	CARBONDALE	SPRINGFIELD	COAL	3.5	417.0
-17.0	CARBONDALE	HOUCHIN CREEK	COAL	-	514.0
-121.0	CARBONDALE	COLCHESTER	COAL	-	618.0
-153.0	SPOON	SEELYVILLE	COAL	4.5	650.0

MAPID: 03330405000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 10W SECTION: 8 QUARTERS/FOOTAGES: SE NE NW  
 QUADRANGLE: HEATHSVILLE LONGITUDE: -87.548864 GEOLOGIST: C TREWORY  
 CONFIDENTIAL: N LATITUDE: 38.893722 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 439.0 LOGGED (FT.): 612.0 LOG TYPE: Nuclear Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
184.0	CARBONDALE	DANVILLE	COAL	2.5	255.0	
138.0	CARBONDALE	JAMESTOWN	COAL	3.0	301.0	
131.0	CARBONDALE	HERRIN	COAL	1.0	308.0	
73.0	CARBONDALE	SPRINGFIELD	COAL	2.5	366.0	
-34.0	CARBONDALE	HOUCHIN CREEK	COAL	-	473.0	
-137.0	CARBONDALE	COLCHESTER	COAL	-	576.0	
-169.0	SPOON	SEELYVILLE	COAL	4.0	608.0	

MAPID: 03301711000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 10W SECTION: 17 QUARTERS/FOOTAGES: NE NW NW  
 QUADRANGLE: HEATHSVILLE LONGITUDE: -87.55384 GEOLOGIST: C TREWORY  
 CONFIDENTIAL: N LATITUDE: 38.880642 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 496.0 LOGGED (FT.): 678.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
261.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	235.0	
252.0	CARBONDALE	DANVILLE	COAL	4.0	244.0	
103.0	CARBONDALE	JAMESTOWN	COAL	3.0	393.0	
96.0	CARBONDALE	HERRIN	COAL	1.0	400.0	
36.0	CARBONDALE	SPRINGFIELD	COAL	3.0	460.0	
-69.0	CARBONDALE	HOUCHIN CREEK	COAL	-	565.0	
-182.0	CARBONDALE	COLCHESTER	COAL	-	678.0	

MAPID: 03302489000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 10W

SECTION: 18

QUARTERS/FOOTAGES: NE NE NW

QUADRANGLE: HEATHSVILLE

LONGITUDE: -87.567601

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.880615

DATE COLLECTED:

SURFACE ELEVATION (FT.): 472.0

LOGGED (FT.): 492.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
189.0	CARBONDALE	DANVILLE	COAL	2.0	283.0	
141.0	CARBONDALE	JAMESTOWN	COAL	3.0	331.0	
136.0	CARBONDALE	HERRIN	COAL	-	336.0	
76.0	CARBONDALE	SPRINGFIELD	COAL	3.5	396.0	
-20.0	CARBONDALE	HOUCHIN CREEK	COAL	-	492.0	

MAPID: 03301193000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 10W

SECTION: 19

QUARTERS/FOOTAGES: SW SE SW

QUADRANGLE: RUSSELLVILLE

LONGITUDE: -87.569996

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.853442

DATE COLLECTED:

SURFACE ELEVATION (FT.): 477.0

LOGGED (FT.): 449.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
229.0	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	248.0	
144.0	CARBONDALE	DANVILLE	COAL	1.5	333.0	
102.0	CARBONDALE	JAMESTOWN	COAL	3.5	375.0	
96.0	CARBONDALE	HERRIN	COAL	1.0	381.0	
30.0	CARBONDALE	SPRINGFIELD	COAL	2.0	447.0	

MAPID: 03309118000C    VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD    TWP/RNG: 5N 10W    SECTION: 19    QUARTERS/FOOTAGES: 500' N line, 1' E line of NW SW

QUADRANGLE: RUSSELLVILLE    LONGITUDE: -87.571139

GEOLOGIST: UITEMP

CONFIDENTIAL: N    LATITUDE: 38.85857

DATE COLLECTED: 7 / 16 / 1968

SURFACE ELEVATION (FT.):    LOGGED (FT.): 471.0

LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO    4D

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		CLAY	15.0	0.0	BROWN
-	PLEISTOCENE		CLAY	4.5	15.0	BROWN
-			GRAY SHALE	3.2	19.5	
-			BLACK SHALE	2.3	22.7	
-			GRAY SHALE	9.5	25.0	
-			GRAY SHALE	5.2	34.5	
-			COAL	1.3	39.7	BLACK
-			GRAY SHALE	4.0	41.0	
-			GRAY SHALE	31.8	45.0	
-			GRAY SHALE	1.2	76.8	
-			SANDSTONE	48.5	78.0	GRAY
-			GRAY SHALE	20.8	126.5	
-			BLACK SHALE	2.2	147.3	
-			GRAY SHALE	5.5	149.5	
-			GRAY SHALE	72.0	155.0	
-			SANDSTONE	28.5	227.0	GRAY
-			CALCAREOUS SANDSTONE	9.0	255.5	GRAY
-			GRAY SHALE	2.8	264.5	
-			LIMESTONE	3.5	267.3	GRAY
-			GRAY SHALE	4.2	270.8	
-			GRAY SHALE	18.5	275.0	
-			GRAY SHALE	4.7	293.5	
-			COAL	1.2	298.2	
-			GRAY SHALE	0.0	299.3	
-			GRAY SHALE	2.7	299.3	
-			GRAY SHALE	43.0	302.0	
-			GRAY SHALE	2.1	345.0	
-	CARBONDALE	DANVILLE	COAL	2.6	347.1	BLACK
-	CARBONDALE		UNDERCLAY	4.2	349.7	GRAY
-	CARBONDALE		CALCAREOUS SHALE	1.7	353.8	
-	CARBONDALE		LIMESTONE	1.2	355.5	GRAY
-	CARBONDALE		GRAY SHALE	1.3	356.7	
-	CARBONDALE		GRAY SHALE	1.5	358.0	
-	CARBONDALE		GRAY SHALE	2.5	359.5	
-	CARBONDALE		GRAY SHALE	19.0	362.0	
-	CARBONDALE		GRAY SHALE	8.7	381.0	
-	CARBONDALE	JAMESTOWN	COAL	3.5	389.7	BLACK
-	CARBONDALE		GRAY SHALE	2.5	393.2	

-	CARBONDALE	HERRIN	COAL	1.6	395.7	BLACK
-	CARBONDALE		UNDERCLAY	2.3	397.3	GRAY
-	CARBONDALE		GRAY SHALE	3.5	399.5	
-	CARBONDALE		GRAY SHALE	2.7	403.0	
-	CARBONDALE		CLAYSTONE & SILTSTONE	2.3	405.7	SHALEY,GY
-	CARBONDALE		GRAY SHALE	10.0	408.0	
-	CARBONDALE		SANDSTONE	13.5	418.0	GRAY
-	CARBONDALE		GRAY SHALE	11.3	431.5	
-	CARBONDALE	BRIAR HILL	COAL	2.5	442.8	BLACK
-	CARBONDALE		GRAY SHALE	8.7	445.3	
-	CARBONDALE		GRAY SHALE	8.7	454.0	
-	CARBONDALE	ST. DAVID	LIMESTONE	0.7	462.7	GRAY
-	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	463.3	
-	CARBONDALE	SPRINGFIELD	COAL	3.8	465.0	BLACK
-	CARBONDALE		UNDERCLAY	2.2	468.8	GRAY

---



MAPID: 03329958000C    VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD    TWP/RNG: 5N 10W    SECTION: 19    QUARTERS/FOOTAGES: 1' S line, 100' E line of SW

QUADRANGLE: RUSSELLVILLE    LONGITUDE: -87.566889    GEOLOGIST: UITEMP

CONFIDENTIAL: N    LATITUDE: 38.852501    DATE COLLECTED: 10 / 4 / 1968

SURFACE ELEVATION (FT.):    LOGGED (FT.): 444.6    LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO    15    WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		CLAY	8.5	0.0	BROWN
-	PLEISTOCENE		CLAY	13.0	8.5	GRAY
-			GRAY SHALE	12.5	21.5	
-			GRAY SHALE	10.5	34.0	
-			GRAY SHALE	13.0	44.5	
-			GRAY SHALE	8.5	57.5	
-			SANDSTONE	28.5	66.0	GRAY
-			GRAY SHALE	28.8	94.5	
-			BLACK SHALE	2.3	123.3	
-			GRAY SHALE	5.4	125.6	
-			GRAY SHALE	54.0	131.0	
-			SANDSTONE	50.5	185.0	GRAY
-			SANDSTONE	3.1	235.5	GRAY
-			SANDSTONE	18.9	238.6	GRAY
-			GRAY SHALE	7.2	257.5	
-			COAL	1.5	264.7	BLACK
-			GRAY SHALE	2.8	266.2	
-			GRAY SHALE	49.5	269.0	
-			GRAY SHALE	7.3	318.5	
-	CARBONDALE	DANVILLE	COAL	2.8	325.8	BLACK
-	CARBONDALE		UNDERCLAY	4.1	328.6	GRAY
-	CARBONDALE		GRAY SHALE	1.3	332.7	
-	CARBONDALE		GRAY SHALE	1.2	334.0	
-	CARBONDALE		GRAY SHALE	1.5	335.2	
-	CARBONDALE		GRAY SHALE	2.3	336.7	
-	CARBONDALE		GRAY SHALE	0.0	339.0	
-	CARBONDALE		GRAY SHALE	26.3	339.0	
-	CARBONDALE	JAMESTOWN	COAL	3.2	365.3	BLACK
-	CARBONDALE		GRAY SHALE	2.1	368.5	
-	CARBONDALE	HERRIN	COAL	1.7	370.6	BLACK
-	CARBONDALE		UNDERCLAY	2.8	372.3	GRAY
-	CARBONDALE		GRAY SHALE	3.3	375.0	
-	CARBONDALE		GRAY SHALE	2.3	378.3	
-	CARBONDALE		CLAYSTONE & SILTSTONE	1.8	380.7	GRAY
-	CARBONDALE		GRAY SHALE	9.5	382.5	
-	CARBONDALE		SANDSTONE	16.5	392.0	GRAY
-	CARBONDALE		GRAY SHALE	9.9	408.5	
-	CARBONDALE	BRIAR HILL	COAL	2.5	418.4	BLACK
-	CARBONDALE		GRAY SHALE	11.6	420.9	

-	CARBONDALE		GRAY SHALE	3.1	432.5	
-	CARBONDALE	ST. DAVID	LIMESTONE	3.7	435.6	GRAY
-	CARBONDALE	TURNER MINE	BLACK SHALE	0.3	439.3	
-	CARBONDALE	SPRINGFIELD	COAL	3.4	439.6	BLACK
-	CARBONDALE		UNDERCLAY	2.0	443.0	GRAY

---

MAPID: 03309120000C    VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD    TWP/RNG: 5N 10W    SECTION: 20    QUARTERS/FOOTAGES: 202' S line, 75' W line of NW

QUADRANGLE: RUSSELLVILLE

LONGITUDE: -87.557009

GEOLOGIST: UITEMP

CONFIDENTIAL: N

LATITUDE: 38.860499

DATE COLLECTED: 10 / 1 / 1968

SURFACE ELEVATION (FT.):

LOGGED (FT.): 401.0

LOG TYPE: Drillers Log

SOURCE: TEMPLETON COAL CO    14

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-	PLEISTOCENE		CLAY	12.0	0.0	BROWN
-	PLEISTOCENE		CLAY	4.5	12.0	GRAY
-			SANDSTONE	31.5	16.5	GRAY
-			GRAY SHALE	27.3	48.0	
-			BLACK SHALE	2.2	75.3	
-			GRAY SHALE	3.5	77.5	
-			GRAY SHALE	55.0	81.0	
-			SANDSTONE	41.2	136.0	GRAY
-			GRAY SHALE	2.2	177.2	
-			SANDSTONE	2.2	179.3	GRAY
-			GRAY SHALE	6.2	181.5	
-			GRAY SHALE	4.8	187.7	
-			GRAY SHALE	2.0	192.5	
-			GRAY SHALE	1.7	194.5	
-			LIMESTONE	4.3	196.2	GRAY
-			GRAY SHALE	1.1	200.4	
-			GRAY SHALE	3.5	201.5	
-			SANDSTONE	13.5	205.0	GRAY
-			GRAY SHALE	10.2	218.5	
-			COAL	1.3	228.7	BLACK
-			BROWN SHALE	2.4	230.0	
-			GRAY SHALE	38.6	232.4	
-			GRAY SHALE	2.6	271.0	
-	CARBONDALE	DANVILLE	COAL	2.8	273.6	BLACK
-	CARBONDALE		UNDERCLAY	3.7	276.3	SHALEY;GY
-	CARBONDALE		CALCAREOUS SHALE	0.7	280.0	
-	CARBONDALE		GRAY SHALE	2.3	280.7	
-	CARBONDALE		GRAY SHALE	2.6	282.9	
-	CARBONDALE		GRAY SHALE	3.5	285.5	
-	CARBONDALE		SANDSTONE	11.5	289.0	GRAY
-	CARBONDALE		GRAY SHALE	11.5	300.5	
-	CARBONDALE		GRAY SHALE	9.7	312.0	
-	CARBONDALE	JAMESTOWN	COAL	3.3	321.7	BLACK
-	CARBONDALE		GRAY SHALE	2.1	325.0	
-	CARBONDALE	HERRIN	COAL	1.8	327.1	BLACK
-	CARBONDALE		UNDERCLAY	1.7	328.8	GRAY
-	CARBONDALE		GRAY SHALE	2.8	330.5	
-	CARBONDALE		CALCAREOUS SHALE	2.8	333.3	
-	CARBONDALE		GRAY SHALE	2.8	336.2	

-	CARBONDALE		GRAY SHALE	24.5	339.0	
-	CARBONDALE		GRAY SHALE	9.8	363.5	
-	CARBONDALE	BRIAR HILL	COAL	2.4	373.3	BLACK
-	CARBONDALE		GRAY SHALE	11.8	375.7	
-	CARBONDALE		GRAY SHALE	3.9	387.5	
-	CARBONDALE	ST. DAVID	LIMESTONE	2.5	391.4	GRAY
-	CARBONDALE	TURNER MINE	BLACK SHALE	1.4	393.9	
-	CARBONDALE	SPRINGFIELD	COAL	3.9	395.3	BLACK
-	CARBONDALE		UNDERCLAY	1.8	399.3	GRAY

MAPID: 03390100000C    VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD    TWP/RNG: 5N 11W    SECTION: 1    QUARTERS/FOOTAGES: 30' S line, 670' E line of SE SE

QUADRANGLE: HEATHSVILLE

LONGITUDE: -87.577668

GEOLOGIST: LAWSON

CONFIDENTIAL: N

LATITUDE: 38.896074

DATE COLLECTED: 4 / 28 / 1967

SURFACE ELEVATION (FT.): 482.3

LOGGED (FT.): 546.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE    1

WELL TYPE: Coal Test

COMMENT: CRAWFORD CO. BOX 33 CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT    OVERBURDEN    COMMENT	
482.3	PLEISTOCENE		UNCONSOLIDATED	26.0	0.0
456.3			ROCK	45.0	26.0
411.3			COAL	1.5	71.0
409.8			ROCK	102.5	72.5
307.3			COAL	1.0	175.0
306.3			ROCK	190.0	176.0
116.3	CARBONDALE	DANVILLE	COAL	2.0	366.0
114.3	CARBONDALE		ROCK	50.4	368.0
63.9	CARBONDALE	JAMESTOWN	COAL	1.0	418.4
62.9	CARBONDALE		ROCK	2.6	419.4
60.3	CARBONDALE	HERRIN	COAL WITH SHALE	1.5	422.0
58.8	CARBONDALE		ROCK	40.5	423.5
18.3	CARBONDALE	BRIAR HILL	COAL	1.3	464.0
17.0	CARBONDALE	BRIAR HILL	COAL	0.5	465.3
16.5	CARBONDALE	BRIAR HILL	COAL	0.5	465.8
16.0	CARBONDALE		ROCK	14.7	466.3
1.3	CARBONDALE	SPRINGFIELD	COAL	3.2	481.0
-1.9	CARBONDALE		ROCK	61.8	484.2

MAPID: 03300524000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 2 QUARTERS/FOOTAGES: SE NW SE  
 QUADRANGLE: HEATHSVILLE LONGITUDE: -87.600335 GEOLOGIST: C TREWORY  
 CONFIDENTIAL: N LATITUDE: 38.900567 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 536.0 LOGGED (FT.): 790.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
80.0	CARBONDALE	DANVILLE	COAL	-	456.0
29.0	CARBONDALE	JAMESTOWN	COAL	3.5	507.0
22.0	CARBONDALE	HERRIN	COAL	-	514.0
-41.0	CARBONDALE	SPRINGFIELD	COAL	3.5	577.0
-154.0	CARBONDALE	HOUCHIN CREEK	COAL	-	690.0
-219.0	CARBONDALE	COLCHESTER	COAL	-	755.0
-249.0	SPOON	SEELYVILLE	COAL	5.0	785.0

MAPID: 03390101000C VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 2 QUARTERS/FOOTAGES: 540' N line, 200' W line of NW SW  
 QUADRANGLE: HEATHSVILLE LONGITUDE: -87.612697 GEOLOGIST: LAWSON  
 CONFIDENTIAL: N LATITUDE: 38.90185 DATE COLLECTED: 4 / 28 / 1967  
 SURFACE ELEVATION (FT.): 586.7 LOGGED (FT.): 548.0 LOG TYPE: Drillers Log  
 SOURCE: AYRSHIRE 2 WELL TYPE: Coal Test  
 COMMENT: CRAWFORD CO.BOX 33

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
586.7	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0
566.7			ROCK	48.0	20.0
518.7			COAL	1.3	68.0
517.4			ROCK	28.8	69.3
488.7			COAL	1.5	98.0
487.2			ROCK	71.5	99.5
415.7			COAL	2.0	171.0
413.7			ROCK	305.0	173.0
108.7	CARBONDALE	DANVILLE	COAL	3.0	478.0
105.7	CARBONDALE		ROCK	67.0	481.0

MAPID: 03301216000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 3 QUARTERS/FOOTAGES: SE NE SW

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.623982 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.900835 DATE COLLECTED:

SURFACE ELEVATION (FT.): 509.0 LOGGED (FT.): 600.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
114.0	CARBONDALE	DANVILLE	COAL	5.0	395.0	
61.0	CARBONDALE	JAMESTOWN	COAL	5.0	448.0	
54.0	CARBONDALE	HERRIN	COAL	3.0	455.0	
-3.0	CARBONDALE	SPRINGFIELD	COAL	4.5	512.0	
-91.0	CARBONDALE	HOUCHIN CREEK	COAL	-	600.0	

MAPID: 03300765000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 4 QUARTERS/FOOTAGES: NW SW NE

QUADRANGLE: FLAT ROCK LONGITUDE: -87.640579 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.906795 DATE COLLECTED:

SURFACE ELEVATION (FT.): 501.0 LOGGED (FT.): 600.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
99.0	CARBONDALE	DANVILLE	COAL	2.0	402.0	
52.0	CARBONDALE	JAMESTOWN	COAL	3.0	449.0	
46.0	CARBONDALE	HERRIN	COAL	2.0	455.0	
-12.0	CARBONDALE	SPRINGFIELD	COAL	2.0	513.0	
-99.0	CARBONDALE	HOUCHIN CREEK	COAL	-	600.0	

MAPID: 03303136000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 4 QUARTERS/FOOTAGES: NE NW SW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.647736 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.903112 DATE COLLECTED:

SURFACE ELEVATION (FT.): 492.0 LOGGED (FT.): 720.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
87.0	CARBONDALE	DANVILLE	COAL	4.0	405.0
38.0	CARBONDALE	JAMESTOWN	COAL	3.0	454.0
31.0	CARBONDALE	HERRIN	COAL	2.5	461.0
-31.0	CARBONDALE	SPRINGFIELD	COAL	3.0	523.0
-132.0	CARBONDALE	HOUCHIN CREEK	COAL	-	624.0
-228.0	CARBONDALE	COLCHESTER	COAL	-	720.0

MAPID: 03300566000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 7 QUARTERS/FOOTAGES: NW NE SE

QUADRANGLE: FLAT ROCK LONGITUDE: -87.673761 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.888337 DATE COLLECTED:

SURFACE ELEVATION (FT.): 496.0 LOGGED (FT.): 757.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
184.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	312.0
89.0	CARBONDALE	DANVILLE	COAL	3.0	407.0
36.0	CARBONDALE	JAMESTOWN	COAL	3.5	460.0
32.0	CARBONDALE	HERRIN	COAL	1.5	464.0
-31.0	CARBONDALE	SPRINGFIELD	COAL	2.0	527.0
-129.0	CARBONDALE	HOUCHIN CREEK	COAL	-	625.0
-235.0	CARBONDALE	COLCHESTER	COAL	-	731.0
-257.0	SPOON	SEELYVILLE	COAL	4.5	753.0

MAPID: 03300782000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 7 QUARTERS/FOOTAGES: 340' N line, 980' E line of SW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.683046 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.888452 DATE COLLECTED:

SURFACE ELEVATION (FT.): 493.0 LOGGED (FT.): 749.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
109.0	CARBONDALE	DANVILLE	COAL	3.0	384.0
56.0	CARBONDALE	JAMESTOWN	COAL	3.5	437.0
52.0	CARBONDALE	HERRIN	COAL	-	441.0
-12.0	CARBONDALE	SPRINGFIELD	COAL	4.0	505.0
-112.0	CARBONDALE	HOUCHIN CREEK	COAL	-	605.0
-212.0	CARBONDALE	COLCHESTER	COAL	-	705.0
-252.0	SPOON	SEELYVILLE	COAL	4.5	745.0

MAPID: 03300780000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 8 QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.661992 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.890126 DATE COLLECTED:

SURFACE ELEVATION (FT.): 461.0 LOGGED (FT.): 719.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
185.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	276.0
79.0	CARBONDALE	DANVILLE	COAL	3.0	382.0
28.0	CARBONDALE	JAMESTOWN	COAL	4.5	433.0
21.0	CARBONDALE	HERRIN	COAL	-	440.0
-42.0	CARBONDALE	SPRINGFIELD	COAL	4.0	503.0
-139.0	CARBONDALE	HOUCHIN CREEK	COAL	-	600.0
-227.0	CARBONDALE	COLCHESTER	COAL	-	688.0
-254.0	SPOON	SEELYVILLE	COAL	4.0	715.0



MAPID: 03301487000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 8 QUARTERS/FOOTAGES: 440' N line, 330' W line of SW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.669092 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.887996 DATE COLLECTED:

SURFACE ELEVATION (FT.): 464.0 LOGGED (FT.): 724.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
81.0	CARBONDALE	DANVILLE	COAL	4.0	383.0
28.0	CARBONDALE	JAMESTOWN	COAL	-	436.0
23.0	CARBONDALE	HERRIN	COAL	1.5	441.0
-41.0	CARBONDALE	SPRINGFIELD	COAL	3.0	505.0
-141.0	CARBONDALE	HOUCHIN CREEK	COAL	-	605.0
-241.0	CARBONDALE	COLCHESTER	COAL	-	705.0
-260.0	SPOON	SEELYVILLE	COAL	-	724.0

MAPID: 03300162000C VERSION: 1

PROJECT: NCRDS88

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 10 QUARTERS/FOOTAGES: 660' N line, 2640' E line

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.622771 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.894271 DATE COLLECTED: 7 / 31 / 1967

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

SOURCE: CRAWFORD CO. COAL CO. WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN COMMENT	
-			UNCONSOLIDATED	12.0	0.0	
-			SANDSTONE	4.0	12.0	
-			BLUE SHALE	14.0	16.0	
-			COAL	2.0	30.0	
-			GRAY SHALE	31.0	32.0	
-			SHALE	9.5	63.0	SLATE
-			LIMESTONE	4.1	72.5	
-			COAL	2.3	76.6	
-			LIMESTONE W/ SHALE	56.1	78.9	MILLESVILLE SL. MAY BE IN THIS INTERVAL
-			SANDSTONE	51.3	135.0	
-			GRAY SHALE	7.7	186.3	
-			SHALE	10.5	194.0	SLATE
-			SHALE	1.0	204.5	
-			SHALE	4.3	205.5	SLATE
-			COAL	4.3	209.8	
-			UNDERCLAY	0.8	214.2	

MAPID: 03300169000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 10 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.614697 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.881902 DATE COLLECTED:

SURFACE ELEVATION (FT.): 495.0 LOGGED (FT.): 712.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
210.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	285.0
113.0	CARBONDALE	DANVILLE	COAL	2.0	382.0
65.0	CARBONDALE	JAMESTOWN	COAL	3.0	430.0
50.0	CARBONDALE	HERRIN	COAL	1.5	445.0
4.0	CARBONDALE	SPRINGFIELD	COAL	3.0	491.0
-98.0	CARBONDALE	HOUCHIN CREEK	COAL	-	593.0
-180.0	CARBONDALE	COLCHESTER	COAL	-	675.0
-212.0	SPOON	SEELYVILLE	COAL	5.0	707.0

MAPID: 03303151000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 10 QUARTERS/FOOTAGES: 660' S line, 30' W line of SE SW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.627502 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.883156 DATE COLLECTED:

SURFACE ELEVATION (FT.): 573.0 LOGGED (FT.): 817.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
208.0	MODESTO	WEST FRANKLIN	LIMESTONE	30.0	365.0
105.0	CARBONDALE	DANVILLE	COAL	2.0	468.0
56.0	CARBONDALE	JAMESTOWN	COAL	3.5	517.0
50.0	CARBONDALE	HERRIN	COAL	2.0	523.0
-10.0	CARBONDALE	SPRINGFIELD	COAL	2.5	583.0
-112.0	CARBONDALE	HOUCHIN CREEK	COAL	-	685.0
-217.0	CARBONDALE	COLCHESTER	COAL	-	790.0
-239.0	SPOON	SEELYVILLE	COAL	5.0	812.0

MAPID: 0330226000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 13 QUARTERS/FOOTAGES: NE NE NW  
 QUADRANGLE: HEATHSVILLE LONGITUDE: -87.586289 GEOLOGIST: C TREWORY  
 CONFIDENTIAL: N LATITUDE: 38.880104 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 453.0 LOGGED (FT.): 687.5 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
198.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	255.0
118.0	CARBONDALE	DANVILLE	COAL	3.5	335.0
67.0	CARBONDALE	JAMESTOWN	COAL	3.0	386.0
62.0	CARBONDALE	HERRIN	COAL	-	391.0
2.0	CARBONDALE	SPRINGFIELD	COAL	2.5	451.0
-97.0	CARBONDALE	HOUCHIN CREEK	COAL	-	550.0
-205.0	CARBONDALE	COLCHESTER	COAL	-	658.0
-230.0	SPOON	SEELYVILLE	COAL	4.5	683.0

MAPID: 03302265000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 13 QUARTERS/FOOTAGES: NE NW NW  
 QUADRANGLE: HEATHSVILLE LONGITUDE: -87.591072 GEOLOGIST: C TREWORY  
 CONFIDENTIAL: N LATITUDE: 38.8801 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 494.0 LOGGED (FT.): 727.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
109.0	CARBONDALE	DANVILLE	COAL	3.0	385.0
61.0	CARBONDALE	JAMESTOWN	COAL	3.0	433.0
54.0	CARBONDALE	HERRIN	COAL	-	440.0
-6.0	CARBONDALE	SPRINGFIELD	COAL	3.0	500.0
-110.0	CARBONDALE	HOUCHIN CREEK	COAL	-	604.0
-201.0	CARBONDALE	COLCHESTER	COAL	-	695.0
-229.0	SPOON	SEELYVILLE	COAL	4.0	723.0

MAPID: 03300905000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 14 QUARTERS/FOOTAGES: SW NE SE

QUADRANGLE: RUSSELLVILLE LONGITUDE: -87.598219 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.871127 DATE COLLECTED:

SURFACE ELEVATION (FT.): 536.0 LOGGED (FT.): 747.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
206.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	330.0
123.0	CARBONDALE	DANVILLE	COAL	4.0	413.0
83.0	CARBONDALE	JAMESTOWN	COAL	-	453.0
76.0	CARBONDALE	HERRIN	COAL	-	460.0
13.0	CARBONDALE	SPRINGFIELD	COAL	2.5	523.0
-101.0	CARBONDALE	HOUCHIN CREEK	COAL	-	637.0
-188.0	CARBONDALE	COLCHESTER	COAL	-	724.0
-207.0	SPOON	SEELYVILLE	COAL	4.0	743.0

MAPID: 03300004000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 15 QUARTERS/FOOTAGES: 678' N line, 670' E line of SW SW

QUADRANGLE: BIRDS LONGITUDE: -87.630196 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.868575 DATE COLLECTED:

SURFACE ELEVATION (FT.): 551.0 LOGGED (FT.): 785.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
102.0	CARBONDALE	DANVILLE	COAL	3.5	449.0
51.0	CARBONDALE	JAMESTOWN	COAL	-	500.0
47.0	CARBONDALE	HERRIN	COAL	-	504.0
-15.0	CARBONDALE	SPRINGFIELD	COAL	3.0	566.0
-127.0	CARBONDALE	HOUCHIN CREEK	COAL	-	678.0
-218.0	CARBONDALE	COLCHESTER	COAL	-	769.0
-228.0	SPOON	SEELYVILLE	COAL	6.0	779.0

MAPID: 03300004000C    VERSION: 2

PROJECT: CONTROL

COUNTY: CRAWFORD    TWP/RNG: 5N 11W    SECTION: 15    QUARTERS/FOOTAGES: 678' N line, 670' E line of SW SW

QUADRANGLE: BIRDS    LONGITUDE: -87.630196    GEOLOGIST: HINES

CONFIDENTIAL: N    LATITUDE: 38.868575    DATE COLLECTED:

SURFACE ELEVATION (FT.):    LOGGED (FT.): 1805.0    LOG TYPE: Survey Sample Study

SOURCE: OHIO OIL CO., THE    WELL TYPE: Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			NO RECORD	0.0	0.0	

MAPID: 03303180000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 5N 11W    SECTION: 15    QUARTERS/FOOTAGES: 660' S line, 660' E line of NW SE

QUADRANGLE: RUSSELLVILLE    LONGITUDE: -87.62067    GEOLOGIST: C TREWORYG

CONFIDENTIAL: N    LATITUDE: 38.872185    DATE COLLECTED:

SURFACE ELEVATION (FT.): 530.0    LOGGED (FT.): 757.5    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
212.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	318.0	
112.0	CARBONDALE	DANVILLE	COAL	2.0	418.0	
64.0	CARBONDALE	JAMESTOWN	COAL	3.0	466.0	
58.0	CARBONDALE	HERRIN	COAL	-	472.0	
-1.0	CARBONDALE	SPRINGFIELD	COAL	3.0	531.0	
-92.0	CARBONDALE	HOUCHIN CREEK	COAL	-	622.0	
-212.0	CARBONDALE	COLCHESTER	COAL	-	742.0	
-223.0	SPOON	SEELYVILLE	COAL	4.5	753.0	

MAPID: 0330318600C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 15 QUARTERS/FOOTAGES: 630' S line, 660' E line of NE

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.615916 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.875621 DATE COLLECTED:

SURFACE ELEVATION (FT.): 566.0 LOGGED (FT.): 793.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
112.0	CARBONDALE	DANVILLE	COAL	3.0	454.0
63.0	CARBONDALE	JAMESTOWN	COAL	3.0	503.0
57.0	CARBONDALE	HERRIN	COAL	-	509.0
-11.0	CARBONDALE	SPRINGFIELD	COAL	3.0	577.0
-99.0	CARBONDALE	HOUCHIN CREEK	COAL	-	665.0
-205.0	CARBONDALE	COLCHESTER	COAL	-	771.0
-224.0	SPOON	SEELYVILLE	COAL	3.5	790.0

MAPID: 0330017400C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 16 QUARTERS/FOOTAGES: 660' N line, 30' E line

QUADRANGLE: FLAT ROCK LONGITUDE: -87.632455 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.879646 DATE COLLECTED:

SURFACE ELEVATION (FT.): 581.0 LOGGED (FT.): 837.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
199.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	382.0
97.0	CARBONDALE	DANVILLE	COAL	3.0	484.0
43.0	CARBONDALE	JAMESTOWN	COAL	3.5	538.0
37.0	CARBONDALE	HERRIN	COAL	2.0	544.0
-25.0	CARBONDALE	SPRINGFIELD	COAL	3.0	606.0
-134.0	CARBONDALE	HOUCHIN CREEK	COAL	-	715.0
-233.0	CARBONDALE	COLCHESTER	COAL	-	814.0
-252.0	SPOON	SEELYVILLE	COAL	4.0	833.0

MAPID: 03303559000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 5N 11W    SECTION: 16    QUARTERS/FOOTAGES: 902' N line, 451' W line of SW SE

QUADRANGLE: BIRDS    LONGITUDE: -87.640411    GEOLOGIST: C TREWORY

CONFIDENTIAL: N    LATITUDE: 38.868021    DATE COLLECTED:

SURFACE ELEVATION (FT.): 543.0    LOGGED (FT.): 774.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
196.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	347.0
91.0	CARBONDALE	DANVILLE	COAL	3.0	452.0
43.0	CARBONDALE	JAMESTOWN	COAL	2.5	500.0
37.0	CARBONDALE	HERRIN	COAL	-	506.0
-33.0	CARBONDALE	SPRINGFIELD	COAL	2.5	576.0
-135.0	CARBONDALE	HOUCHIN CREEK	COAL	-	678.0
-211.0	CARBONDALE	COLCHESTER	COAL	-	754.0
-226.0	SPOON	SEELYVILLE	COAL	5.0	769.0

MAPID: 0330356600C VERSION: 1

PROJECT: NCRDS88

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 16 QUARTERS/FOOTAGES: NE NW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.644222 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.879771 DATE COLLECTED: 3 / 2 / 1906

SURFACE ELEVATION (FT.): 520.0 LOGGED (FT.): 506.1 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Coal Test

COMMENT: EXACT LOCATION AND ELEVATION UNSURE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
520.0			UNCONSOLIDATED	21.0	0.0	
499.0			SANDSTONE	4.0	21.0	
495.0			COAL	1.0	25.0	
494.0			SANDSTONE	22.0	26.0	
472.0			GRAY SHALE	32.0	48.0	
440.0			SANDSTONE	17.0	80.0	
423.0			COAL	2.0	97.0	
421.0			UNDERCLAY	1.0	99.0	
420.0			SANDSTONE	15.0	100.0	
405.0			GRAY SHALE	3.0	115.0	
402.0			COAL	1.0	118.0	
401.0			UNDERCLAY	8.0	119.0	
393.0			SANDSTONE	55.0	127.0	
338.0			SHALE	33.0	182.0	
305.0			BLACK SHALE	3.0	215.0	BLACK SLATE ON DRILL LOG
302.0			SANDSTONE	38.0	218.0	
264.0			GRAY SHALE	6.0	256.0	
258.0			SANDSTONE	50.0	262.0	
208.0			LIMESTONE	3.0	312.0	
205.0			GRAY SHALE	50.0	315.0	
155.0			COAL	1.0	365.0	
154.0			UNDERCLAY	1.0	366.0	
153.0			SANDY SHALE	87.0	367.0	
66.0	CARBONDALE	DANVILLE	COAL	3.2	454.0	
62.8	CARBONDALE		UNDERCLAY	2.8	457.2	
60.0	CARBONDALE		SANDY SHALE	31.0	460.0	
29.0	CARBONDALE		GRAY SHALE	12.0	491.0	
17.0	CARBONDALE	JAMESTOWN	COAL	3.1	503.0	



MAPID: 03303566000C    VERSION: 2

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 5N 11W    SECTION: 16    QUARTERS/FOOTAGES: NE NW

QUADRANGLE: FLAT ROCK    LONGITUDE: -87.644222    GEOLOGIST: C TREWORY

CONFIDENTIAL: N    LATITUDE: 38.879771    DATE COLLECTED:

SURFACE ELEVATION (FT.): 570.0    LOGGED (FT.): 506.1    LOG TYPE: Survey Core Study

SOURCE:    WELL TYPE: Coal Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
116.0	CARBONDALE	DANVILLE	COAL	3.2	454.0
67.0	CARBONDALE	JAMESTOWN	COAL	3.1	503.0

---

MAPID: 03300066000C VERSION: 1

PROJECT: NCRDS88

COUNTY: CRAWFORD TWP/RNG: 5N 11W SECTION: 17 QUARTERS/FOOTAGES: SE NW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.663098 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.876191 DATE COLLECTED: 2 / 0 / 1906

SURFACE ELEVATION (FT.): LOGGED (FT.): 538.8 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Coal Test

COMMENT: EXACT LOCATION AND ELEVATION UNSURE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	17.0	0.0	
-			GRAY SHALE	19.0	17.0	
-			COAL	0.5	36.0	
-			UNDERCLAY	1.0	36.5	
-			SANDSTONE	23.0	37.5	
-			COAL	1.5	60.5	
-			UNDERCLAY	2.0	62.0	
-			SANDSTONE	16.0	64.0	
-			SHALE	8.0	80.0	
-			SANDY SHALE	45.0	88.0	
-			SANDSTONE	12.0	133.0	
-			GRAY SHALE	21.0	145.0	
-			BLACK SHALE	2.0	166.0	
-			SANDSTONE	96.0	168.0	
-	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	264.0	
-	MODESTO		SHALE	48.0	268.0	
-	MODESTO	PIRTLE (IN)	COAL	1.0	316.0	
-	MODESTO		UNDERCLAY	1.0	317.0	
-	MODESTO		SANDY SHALE	49.0	318.0	
-	MODESTO		SANDSTONE	32.0	367.0	
-	MODESTO		GRAY SHALE	4.0	399.0	
-	CARBONDALE	DANVILLE	COAL	3.3	403.0	
-	CARBONDALE		UNDERCLAY	3.8	406.3	
-	CARBONDALE		GRAY SHALE	14.0	410.0	
-	CARBONDALE		SANDSTONE	22.0	424.0	
-	CARBONDALE		SANDY SHALE	17.0	446.0	
-	CARBONDALE	JAMESTOWN	COAL	3.8	463.0	MAY INCLUDE #6
-	CARBONDALE		UNDERCLAY	5.0	466.8	
-	CARBONDALE		GRAY SHALE	3.0	471.8	
-	CARBONDALE		SANDSTONE	12.0	474.8	
-	CARBONDALE		SANDY SHALE	52.0	486.8	

MAPID: 03300066000C    VERSION: 2

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 5N 11W    SECTION: 17    QUARTERS/FOOTAGES: SE NW

QUADRANGLE: FLAT ROCK    LONGITUDE: -87.663098    GEOLOGIST: C TREWORY

CONFIDENTIAL: N    LATITUDE: 38.876191    DATE COLLECTED:

SURFACE ELEVATION (FT.): 460.0    LOGGED (FT.): 466.8    LOG TYPE: Survey Core Study

SOURCE:    WELL TYPE: Coal Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
57.0	CARBONDALE	DANVILLE	COAL	3.3	403.0
-3.0	CARBONDALE	JAMESTOWN	COAL	3.8	463.0

MAPID: 03300631000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 5N 11W    SECTION: 17    QUARTERS/FOOTAGES: NE NE NW

QUADRANGLE: FLAT ROCK    LONGITUDE: -87.661908    GEOLOGIST: C TREWORY

CONFIDENTIAL: N    LATITUDE: 38.88083    DATE COLLECTED:

SURFACE ELEVATION (FT.): 459.0    LOGGED (FT.): 695.5    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
201.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	258.0
96.0	CARBONDALE	DANVILLE	COAL	3.0	363.0
44.0	CARBONDALE	JAMESTOWN	COAL	-	415.0
39.0	CARBONDALE	HERRIN	COAL	-	420.0
-26.0	CARBONDALE	SPRINGFIELD	COAL	-	485.0
-128.0	CARBONDALE	HOUCHIN CREEK	COAL	-	587.0
-210.0	CARBONDALE	COLCHESTER	COAL	-	669.0
-232.0	SPOON	SEELYVILLE	COAL	4.5	691.0

MAPID: 03303322000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 5N 11W    SECTION: 17    QUARTERS/FOOTAGES: 660' S line, 660' W line of SE SE

QUADRANGLE: BIRDS    LONGITUDE: -87.653784    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 38.868685    DATE COLLECTED:

SURFACE ELEVATION (FT.): 526.0    LOGGED (FT.): 791.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
184.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	342.0
70.0	CARBONDALE	DANVILLE	COAL	4.5	456.0
23.0	CARBONDALE	JAMESTOWN	COAL	-	503.0
17.0	CARBONDALE	HERRIN	COAL	-	509.0
-49.0	CARBONDALE	SPRINGFIELD	COAL	3.0	575.0
-159.0	CARBONDALE	HOUCHIN CREEK	COAL	-	685.0
-236.0	CARBONDALE	COLCHESTER	COAL	-	762.0
-265.0	SPOON	SEELYVILLE	COAL	-	791.0

MAPID: 03300181000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 5N 11W    SECTION: 18    QUARTERS/FOOTAGES: 330' S line, 330' E line

QUADRANGLE: BIRDS    LONGITUDE: -87.671306    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 38.86786    DATE COLLECTED:

SURFACE ELEVATION (FT.): 450.0    LOGGED (FT.): 704.5    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
195.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	255.0
84.0	CARBONDALE	DANVILLE	COAL	3.5	366.0
35.0	CARBONDALE	JAMESTOWN	COAL	-	415.0
30.0	CARBONDALE	HERRIN	COAL	3.0	420.0
-40.0	CARBONDALE	SPRINGFIELD	COAL	2.5	490.0
-145.0	CARBONDALE	HOUCHIN CREEK	COAL	-	595.0
-230.0	CARBONDALE	COLCHESTER	COAL	-	680.0
-250.0	SPOON	SEELYVILLE	COAL	4.5	700.0

MAPID: 03306461000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 5N 11W    SECTION: 18    QUARTERS/FOOTAGES: 330' N line, 330' W line of SW

QUADRANGLE: BIRDS    LONGITUDE: -87.683403    GEOLOGIST: C TREWORY

CONFIDENTIAL: N    LATITUDE: 38.873669    DATE COLLECTED:

SURFACE ELEVATION (FT.): 447.0    LOGGED (FT.): 692.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
192.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	255.0
91.0	CARBONDALE	DANVILLE	COAL	3.0	356.0
38.0	CARBONDALE	JAMESTOWN	COAL	-	409.0
34.0	CARBONDALE	HERRIN	COAL	-	413.0
-32.0	CARBONDALE	SPRINGFIELD	COAL	2.0	479.0
-135.0	CARBONDALE	HOUCHIN CREEK	COAL	-	582.0
-228.0	CARBONDALE	COLCHESTER	COAL	-	675.0
-240.0	SPOON	SEELYVILLE	COAL	5.0	687.0

MAPID: 03300175000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 5N 11W    SECTION: 19    QUARTERS/FOOTAGES: 727' N line, 330' W line of NE

QUADRANGLE: BIRDS    LONGITUDE: -87.676222    GEOLOGIST: C TREWORY

CONFIDENTIAL: N    LATITUDE: 38.865018    DATE COLLECTED:

SURFACE ELEVATION (FT.): 451.0    LOGGED (FT.): 694.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
200.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	251.0
92.0	CARBONDALE	DANVILLE	COAL	3.0	359.0
37.0	CARBONDALE	JAMESTOWN	COAL	-	414.0
33.0	CARBONDALE	HERRIN	COAL	-	418.0
-33.0	CARBONDALE	SPRINGFIELD	COAL	3.0	484.0
-139.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0
-221.0	CARBONDALE	COLCHESTER	COAL	-	672.0
-238.0	SPOON	SEELYVILLE	COAL	5.0	689.0

MAPID: 03300906000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 11W

SECTION: 20

QUARTERS/FOOTAGES: SE NE NW

QUADRANGLE: BIRDS

LONGITUDE: -87.662001

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.86411

DATE COLLECTED:

SURFACE ELEVATION (FT.): 492.0

LOGGED (FT.): 745.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
189.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	303.0
74.0	CARBONDALE	DANVILLE	COAL	4.0	418.0
27.0	CARBONDALE	JAMESTOWN	COAL	-	465.0
23.0	CARBONDALE	HERRIN	COAL	-	469.0
-43.0	CARBONDALE	SPRINGFIELD	COAL	3.0	535.0
-158.0	CARBONDALE	HOUCHIN CREEK	COAL	-	650.0
-234.0	CARBONDALE	COLCHESTER	COAL	-	726.0
-248.0	SPOON	SEELYVILLE	COAL	5.0	740.0

MAPID: 03303323000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 11W

SECTION: 20

QUARTERS/FOOTAGES: SE SW SW

QUADRANGLE: BIRDS

LONGITUDE: -87.666874

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.85294

DATE COLLECTED:

SURFACE ELEVATION (FT.): 450.0

LOGGED (FT.): 705.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
82.0	CARBONDALE	DANVILLE	COAL	3.0	368.0
29.0	CARBONDALE	JAMESTOWN	COAL	-	421.0
24.0	CARBONDALE	HERRIN	COAL	-	426.0
-45.0	CARBONDALE	SPRINGFIELD	COAL	3.0	495.0
-155.0	CARBONDALE	HOUCHIN CREEK	COAL	-	605.0
-233.0	CARBONDALE	COLCHESTER	COAL	-	683.0
-251.0	SPOON	SEELYVILLE	COAL	4.0	701.0

**MAPID:** 03303397000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 5N 11W    **SECTION:** 21    **QUARTERS/FOOTAGES:** 90' N line, 330' E line of SE NW  
**QUADRANGLE:** BIRDS    **LONGITUDE:** -87.643177    **GEOLOGIST:** C TREWORGY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.862894    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 558.0    **LOGGED (FT.):** 806.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
181.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	377.0
71.0	CARBONDALE	DANVILLE	COAL	3.0	487.0
23.0	CARBONDALE	JAMESTOWN	COAL	3.0	535.0
18.0	CARBONDALE	HERRIN	COAL	2.0	540.0
-48.0	CARBONDALE	SPRINGFIELD	COAL	2.5	606.0
-152.0	CARBONDALE	HOUCHIN CREEK	COAL	-	710.0
-233.0	CARBONDALE	COLCHESTER	COAL	-	791.0
-242.0	SPOON	SEELYVILLE	COAL	6.0	800.0

**MAPID:** 03300697000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 5N 12W    **SECTION:** 1    **QUARTERS/FOOTAGES:** NW SE NE  
**QUADRANGLE:** FLAT ROCK    **LONGITUDE:** -87.688136    **GEOLOGIST:** C TREWORGY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.906659    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 509.0    **LOGGED (FT.):** 731.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
111.0	CARBONDALE	DANVILLE	COAL	-	398.0
69.0	CARBONDALE	JAMESTOWN	COAL	-	440.0
65.0	CARBONDALE	HERRIN	COAL	-	444.0
-1.0	CARBONDALE	SPRINGFIELD	COAL	3.0	510.0
-101.0	CARBONDALE	HOUCHIN CREEK	COAL	-	610.0
-198.0	CARBONDALE	COLCHESTER	COAL	-	707.0
-217.0	SPOON	SEELYVILLE	COAL	5.0	726.0

MAPID: 03303457000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 1 QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: FLAT ROCK LONGITUDE: -87.692904 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.908581 DATE COLLECTED:

SURFACE ELEVATION (FT.): 519.0 LOGGED (FT.): 732.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
116.0	CARBONDALE	DANVILLE	COAL	3.5	403.0	
77.0	CARBONDALE	JAMESTOWN	COAL	-	442.0	
74.0	CARBONDALE	HERRIN	COAL	-	445.0	
9.0	CARBONDALE	SPRINGFIELD	COAL	2.5	510.0	
-84.0	CARBONDALE	HOUCHIN CREEK	COAL	-	603.0	
-194.0	CARBONDALE	COLCHESTER	COAL	-	713.0	
-208.0	SPOON	SEELYVILLE	COAL	5.0	727.0	

MAPID: 03301554000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 2 QUARTERS/FOOTAGES: 330' S line, 330' E line of NE SE

QUADRANGLE: FLAT ROCK LONGITUDE: -87.704707 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.900066 DATE COLLECTED:

SURFACE ELEVATION (FT.): 585.0 LOGGED (FT.): 782.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
162.0	CARBONDALE	DANVILLE	COAL	-	423.0	
125.0	CARBONDALE	JAMESTOWN	COAL	-	460.0	
121.0	CARBONDALE	HERRIN	COAL	-	464.0	
-63.0	CARBONDALE	HOUCHIN CREEK	COAL	-	648.0	
-169.0	CARBONDALE	COLCHESTER	COAL	-	754.0	
-191.0	SPOON	SEELYVILLE	COAL	6.0	776.0	



MAPID: 03303462000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 12W

SECTION: 2

QUARTERS/FOOTAGES: SW NE NW

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.716399

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.908375

DATE COLLECTED:

SURFACE ELEVATION (FT.): 581.0

LOGGED (FT.): 798.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
126.0	CARBONDALE	DANVILLE	COAL	4.5	455.0
81.0	CARBONDALE	JAMESTOWN	COAL	-	500.0
78.0	CARBONDALE	HERRIN	COAL	-	503.0
16.0	CARBONDALE	SPRINGFIELD	COAL	3.5	565.0
-85.0	CARBONDALE	HOUCHIN CREEK	COAL	-	666.0
-184.0	CARBONDALE	COLCHESTER	COAL	-	765.0
-213.0	SPOON	SEELYVILLE	COAL	4.0	794.0

MAPID: 03301762000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 12W

SECTION: 3

QUARTERS/FOOTAGES: 947' N line, 330' W line of SE NE

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.725769

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.904658

DATE COLLECTED:

SURFACE ELEVATION (FT.): 543.0

LOGGED (FT.): 758.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
208.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	335.0
120.0	CARBONDALE	DANVILLE	COAL	3.0	423.0
79.0	CARBONDALE	JAMESTOWN	COAL	-	464.0
16.0	CARBONDALE	SPRINGFIELD	COAL	4.0	527.0
-82.0	CARBONDALE	HOUCHIN CREEK	COAL	-	625.0
-190.0	CARBONDALE	COLCHESTER	COAL	-	733.0
-211.0	SPOON	SEELYVILLE	COAL	4.0	754.0

MAPID: 03302406000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 4 QUARTERS/FOOTAGES: 350' S line, 380' W line of SE SW

QUADRANGLE: STOY LONGITUDE: -87.753706 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.894798 DATE COLLECTED:

SURFACE ELEVATION (FT.): 541.0 LOGGED (FT.): 782.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
80.0	CARBONDALE	DANVILLE	COAL	3.5	461.0
26.0	CARBONDALE	JAMESTOWN	COAL	-	515.0
21.0	CARBONDALE	HERRIN	COAL	-	520.0
-24.0	CARBONDALE	SPRINGFIELD	COAL	-	565.0
-144.0	CARBONDALE	HOUCHIN CREEK	COAL	-	685.0
-225.0	CARBONDALE	COLCHESTER	COAL	-	766.0
-236.0	SPOON	SEELYVILLE	COAL	5.0	777.0

MAPID: 03301224000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 6 QUARTERS/FOOTAGES: NE NW NW

QUADRANGLE: STOY LONGITUDE: -87.791382 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.908112 DATE COLLECTED:

SURFACE ELEVATION (FT.): 462.0 LOGGED (FT.): 688.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
92.0	CARBONDALE	DANVILLE	COAL	3.5	370.0
45.0	CARBONDALE	JAMESTOWN	COAL	-	417.0
42.0	CARBONDALE	HERRIN	COAL	-	420.0
-16.0	CARBONDALE	SPRINGFIELD	COAL	-	478.0
-93.0	CARBONDALE	HOUCHIN CREEK	COAL	-	555.0
-208.0	CARBONDALE	COLCHESTER	COAL	-	670.0
-219.0	SPOON	SEELYVILLE	COAL	7.0	681.0

MAPID: 03303489000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 12W

SECTION: 6

QUARTERS/FOOTAGES: SE NE SW

QUADRANGLE: STOY

LONGITUDE: -87.786722

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.898854

DATE COLLECTED:

SURFACE ELEVATION (FT.): 505.0

LOGGED (FT.): 716.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
110.0	CARBONDALE	DANVILLE	COAL	-	395.0
61.0	CARBONDALE	JAMESTOWN	COAL	-	444.0
59.0	CARBONDALE	HERRIN	COAL	2.0	446.0
3.0	CARBONDALE	SPRINGFIELD	COAL	3.0	502.0
-80.0	CARBONDALE	HOUCHIN CREEK	COAL	-	585.0
-187.0	CARBONDALE	COLCHESTER	COAL	-	692.0
-207.0	SPOON	SEELYVILLE	COAL	4.0	712.0

MAPID: 03300993000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 12W

SECTION: 7

QUARTERS/FOOTAGES: NW SE SE

QUADRANGLE: STOY

LONGITUDE: -87.779628

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.882317

DATE COLLECTED:

SURFACE ELEVATION (FT.): 547.0

LOGGED (FT.): 778.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
84.0	CARBONDALE	DANVILLE	COAL	3.5	463.0
32.0	CARBONDALE	JAMESTOWN	COAL	-	515.0
27.0	CARBONDALE	HERRIN	COAL	-	520.0
-28.0	CARBONDALE	SPRINGFIELD	COAL	-	575.0
-108.0	CARBONDALE	HOUCHIN CREEK	COAL	-	655.0
-216.0	CARBONDALE	COLCHESTER	COAL	-	763.0
-226.0	SPOON	SEELYVILLE	COAL	5.0	773.0

**MAPID:** 03301962000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 5N 12W    **SECTION:** 8    **QUARTERS/FOOTAGES:** 330' N line, 990' W line  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.768597    **GEOLOGIST:** C TREWORGY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.887168    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 549.0    **LOGGED (FT.):** 767.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
112.0	CARBONDALE	DANVILLE	COAL	2.5	437.0
57.0	CARBONDALE	JAMESTOWN	COAL	-	492.0
53.0	CARBONDALE	HERRIN	COAL	-	496.0
1.0	CARBONDALE	SPRINGFIELD	COAL	4.0	548.0
-96.0	CARBONDALE	HOUCHIN CREEK	COAL	-	645.0
-187.0	CARBONDALE	COLCHESTER	COAL	-	736.0
-215.0	SPOON	SEELYVILLE	COAL	3.0	764.0

**MAPID:** 03303507000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 5N 12W    **SECTION:** 8    **QUARTERS/FOOTAGES:** SW NE SE  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.763243    **GEOLOGIST:** C TREWORGY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.883496    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 510.0    **LOGGED (FT.):** 752.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
80.0	CARBONDALE	DANVILLE	COAL	3.0	430.0
28.0	CARBONDALE	JAMESTOWN	COAL	-	482.0
23.0	CARBONDALE	HERRIN	COAL	-	487.0
-31.0	CARBONDALE	SPRINGFIELD	COAL	3.5	541.0
-124.0	CARBONDALE	HOUCHIN CREEK	COAL	-	634.0
-224.0	CARBONDALE	COLCHESTER	COAL	-	734.0
-235.0	SPOON	SEELYVILLE	COAL	7.0	745.0

MAPID: 03300442000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 9 QUARTERS/FOOTAGES: 330' N line, 340' E line of SE SW

QUADRANGLE: STOY LONGITUDE: -87.751551 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.881879 DATE COLLECTED:

SURFACE ELEVATION (FT.): 507.0 LOGGED (FT.): 756.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
74.0	CARBONDALE	DANVILLE	COAL	2.5	433.0
22.0	CARBONDALE	JAMESTOWN	COAL	-	485.0
14.0	CARBONDALE	HERRIN	COAL	-	493.0
-43.0	CARBONDALE	SPRINGFIELD	COAL	3.0	550.0
-148.0	CARBONDALE	HOUCHIN CREEK	COAL	-	655.0
-233.0	CARBONDALE	COLCHESTER	COAL	-	740.0
-243.0	SPOON	SEELYVILLE	COAL	6.0	750.0

MAPID: 03300594000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 9 QUARTERS/FOOTAGES: 990' N line, 380' E line of NW

QUADRANGLE: STOY LONGITUDE: -87.751718 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.891159 DATE COLLECTED:

SURFACE ELEVATION (FT.): 526.0 LOGGED (FT.): 790.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
69.0	CARBONDALE	DANVILLE	COAL	4.5	457.0
17.0	CARBONDALE	JAMESTOWN	COAL	2.5	509.0
11.0	CARBONDALE	HERRIN	COAL	2.5	515.0
-45.0	CARBONDALE	SPRINGFIELD	COAL	3.0	571.0
-146.0	CARBONDALE	HOUCHIN CREEK	COAL	-	672.0
-229.0	CARBONDALE	COLCHESTER	COAL	-	755.0
-258.0	SPOON	SEELYVILLE	COAL	6.0	784.0

MAPID: 03330155000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 12W

SECTION: 9

QUARTERS/FOOTAGES: NE NW SW

QUADRANGLE: STOY

LONGITUDE: -87.756228

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.885478

DATE COLLECTED:

SURFACE ELEVATION (FT.): 525.0

LOGGED (FT.): 756.0

LOG TYPE: Nuclear Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
92.0	CARBONDALE	DANVILLE	COAL	3.0	433.0
42.0	CARBONDALE	JAMESTOWN	COAL	2.0	483.0
35.0	CARBONDALE	HERRIN	COAL	2.5	490.0
-20.0	CARBONDALE	SPRINGFIELD	COAL	2.5	545.0
-119.0	CARBONDALE	HOUCHIN CREEK	COAL	-	644.0
-215.0	CARBONDALE	COLCHESTER	COAL	-	740.0
-225.0	SPOON	SEELYVILLE	COAL	6.0	750.0

MAPID: 03330223000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 12W

SECTION: 10

QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.72341

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.893734

DATE COLLECTED:

SURFACE ELEVATION (FT.): 560.0

LOGGED (FT.): 752.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
149.0	CARBONDALE	DANVILLE	COAL	-	411.0
104.0	CARBONDALE	JAMESTOWN	COAL	-	456.0
99.0	CARBONDALE	HERRIN	COAL	-	461.0
55.0	CARBONDALE	SPRINGFIELD	COAL	-	505.0
-43.0	CARBONDALE	HOUCHIN CREEK	COAL	-	603.0
-173.0	CARBONDALE	COLCHESTER	COAL	-	733.0
-192.0	SPOON	SEELYVILLE	COAL	-	752.0

MAPID: 03300569000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 11 QUARTERS/FOOTAGES: SW NE NE

QUADRANGLE: FLAT ROCK LONGITUDE: -87.707022 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.892221 DATE COLLECTED:

SURFACE ELEVATION (FT.): 537.0 LOGGED (FT.): 745.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
264.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	273.0
151.0	CARBONDALE	DANVILLE	COAL	3.0	386.0
106.0	CARBONDALE	JAMESTOWN	COAL	-	431.0
-79.0	CARBONDALE	HOUCHIN CREEK	COAL	-	616.0
-185.0	CARBONDALE	COLCHESTER	COAL	-	722.0
-201.0	SPOON	SEELYVILLE	COAL	7.0	738.0

MAPID: 03300769000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 11 QUARTERS/FOOTAGES: NW SE SE

QUADRANGLE: FLAT ROCK LONGITUDE: -87.707007 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.882993 DATE COLLECTED:

SURFACE ELEVATION (FT.): 527.0 LOGGED (FT.): 761.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
244.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	283.0
128.0	CARBONDALE	DANVILLE	COAL	3.0	399.0
81.0	CARBONDALE	JAMESTOWN	COAL	-	446.0
-3.0	CARBONDALE	SPRINGFIELD	COAL	-	530.0
-107.0	CARBONDALE	HOUCHIN CREEK	COAL	-	634.0
-204.0	CARBONDALE	COLCHESTER	COAL	-	731.0
-227.0	SPOON	SEELYVILLE	COAL	7.0	754.0

MAPID: 03301049000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 12 QUARTERS/FOOTAGES: NW SE SW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.697577 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.883327 DATE COLLECTED:

SURFACE ELEVATION (FT.): 511.0 LOGGED (FT.): 756.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
257.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	254.0
130.0	CARBONDALE	DANVILLE	COAL	4.0	381.0
83.0	CARBONDALE	JAMESTOWN	COAL	-	428.0
-6.0	CARBONDALE	SPRINGFIELD	COAL	2.5	517.0
-90.0	CARBONDALE	HOUCHIN CREEK	COAL	-	601.0
-212.0	CARBONDALE	COLCHESTER	COAL	-	723.0
-239.0	SPOON	SEELYVILLE	COAL	6.0	750.0

MAPID: 03301433000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 12 QUARTERS/FOOTAGES: 530' S line, 330' W line of SE NW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.697592 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.889399 DATE COLLECTED:

SURFACE ELEVATION (FT.): 539.0 LOGGED (FT.): 761.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
141.0	CARBONDALE	DANVILLE	COAL	4.0	398.0
94.0	CARBONDALE	JAMESTOWN	COAL	-	445.0
90.0	CARBONDALE	HERRIN	COAL	-	449.0
5.0	CARBONDALE	SPRINGFIELD	COAL	-	534.0
-108.0	CARBONDALE	HOUCHIN CREEK	COAL	-	647.0
-198.0	CARBONDALE	COLCHESTER	COAL	-	737.0
-217.0	SPOON	SEELYVILLE	COAL	5.5	756.0



MAPID: 03303523000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 12 QUARTERS/FOOTAGES: SW SE SE  
 QUADRANGLE: FLAT ROCK LONGITUDE: -87.688133 GEOLOGIST: C TREWORY  
 CONFIDENTIAL: N LATITUDE: 38.88186 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 514.0 LOGGED (FT.): 784.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
217.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	297.0	
106.0	CARBONDALE	DANVILLE	COAL	3.5	408.0	
53.0	CARBONDALE	JAMESTOWN	COAL	-	461.0	
-17.0	CARBONDALE	SPRINGFIELD	COAL	-	531.0	
-121.0	CARBONDALE	HOUCHIN CREEK	COAL	-	635.0	
-241.0	CARBONDALE	COLCHESTER	COAL	-	755.0	
-264.0	SPOON	SEELYVILLE	COAL	6.0	778.0	

MAPID: 03300187000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 13 QUARTERS/FOOTAGES: SE NW SE  
 QUADRANGLE: BIRDS LONGITUDE: -87.690444 GEOLOGIST: C TREWORY  
 CONFIDENTIAL: N LATITUDE: 38.87086 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 463.0 LOGGED (FT.): 690.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
127.0	CARBONDALE	DANVILLE	COAL	-	336.0	
77.0	CARBONDALE	JAMESTOWN	COAL	-	386.0	
9.0	CARBONDALE	SPRINGFIELD	COAL	2.5	454.0	
-89.0	CARBONDALE	HOUCHIN CREEK	COAL	-	552.0	
-202.0	CARBONDALE	COLCHESTER	COAL	-	665.0	
-221.0	SPOON	SEELYVILLE	COAL	6.0	684.0	

MAPID: 03300189000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 13 QUARTERS/FOOTAGES: 330' N line, 337' E line of NW NE

QUADRANGLE: FLAT ROCK LONGITUDE: -87.690506 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.879931 DATE COLLECTED:

SURFACE ELEVATION (FT.): 521.0 LOGGED (FT.): 800.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
103.0	CARBONDALE	DANVILLE	COAL	3.5	418.0
49.0	CARBONDALE	JAMESTOWN	COAL	-	472.0
-22.0	CARBONDALE	SPRINGFIELD	COAL	2.0	543.0
-124.0	CARBONDALE	HOUCHIN CREEK	COAL	-	645.0
-249.0	CARBONDALE	COLCHESTER	COAL	-	770.0
-272.0	SPOON	SEELYVILLE	COAL	7.0	793.0

MAPID: 03300820000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 14 QUARTERS/FOOTAGES: 370' S line, 330' E line of NW SE

QUADRANGLE: BIRDS LONGITUDE: -87.709237 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.870353 DATE COLLECTED:

SURFACE ELEVATION (FT.): 478.0 LOGGED (FT.): 752.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
181.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	297.0
78.0	CARBONDALE	DANVILLE	COAL	5.0	400.0
40.0	CARBONDALE	JAMESTOWN	COAL	-	438.0
-28.0	CARBONDALE	SPRINGFIELD	COAL	2.5	506.0
-126.0	CARBONDALE	HOUCHIN CREEK	COAL	-	604.0
-253.0	CARBONDALE	COLCHESTER	COAL	-	731.0
-267.0	SPOON	SEELYVILLE	COAL	7.0	745.0

MAPID: 03300585000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 12W

SECTION: 15

QUARTERS/FOOTAGES: NE NW SE

QUADRANGLE: BIRDS

LONGITUDE: -87.727946

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.871501

DATE COLLECTED:

SURFACE ELEVATION (FT.): 569.0

LOGGED (FT.): 796.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
113.0	CARBONDALE	DANVILLE	COAL	4.0	456.0
65.0	CARBONDALE	JAMESTOWN	COAL	-	504.0
62.0	CARBONDALE	HERRIN	COAL	-	507.0
-18.0	CARBONDALE	SPRINGFIELD	COAL	3.0	587.0
-116.0	CARBONDALE	HOUCHIN CREEK	COAL	-	685.0
-205.0	CARBONDALE	COLCHESTER	COAL	-	774.0
-227.0	SPOON	SEELYVILLE	COAL	-	796.0

MAPID: 03330230000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 12W

SECTION: 15

QUARTERS/FOOTAGES: 1580' N line, 1280' W line of SW NE

QUADRANGLE: BIRDS

LONGITUDE: -87.726967

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.871674

DATE COLLECTED:

SURFACE ELEVATION (FT.): 569.0

LOGGED (FT.): 813.0

LOG TYPE: Nuclear Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
111.0	CARBONDALE	DANVILLE	COAL	4.0	458.0
60.0	CARBONDALE	JAMESTOWN	COAL	3.0	509.0
56.0	CARBONDALE	HERRIN	COAL	-	513.0
-25.0	CARBONDALE	SPRINGFIELD	COAL	2.0	594.0
-122.0	CARBONDALE	HOUCHIN CREEK	COAL	-	691.0
-211.0	CARBONDALE	COLCHESTER	COAL	-	780.0
-238.0	SPOON	SEELYVILLE	COAL	6.0	807.0

MAPID: 03300588000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 12W

SECTION: 16

QUARTERS/FOOTAGES: SW NW NW

QUADRANGLE: STOY

LONGITUDE: -87.758531

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.87626

DATE COLLECTED:

SURFACE ELEVATION (FT.): 484.0

LOGGED (FT.): 756.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
179.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	305.0
55.0	CARBONDALE	DANVILLE	COAL	4.0	429.0
1.0	CARBONDALE	JAMESTOWN	COAL	-	483.0
-3.0	CARBONDALE	HERRIN	COAL	-	487.0
-60.0	CARBONDALE	SPRINGFIELD	COAL	3.0	544.0
-161.0	CARBONDALE	HOUCHIN CREEK	COAL	-	645.0
-255.0	CARBONDALE	COLCHESTER	COAL	-	739.0
-266.0	SPOON	SEELYVILLE	COAL	6.0	750.0

MAPID: 03302487000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 12W

SECTION: 16

QUARTERS/FOOTAGES: NW NE NE

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.744455

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.87826

DATE COLLECTED:

SURFACE ELEVATION (FT.): 523.0

LOGGED (FT.): 766.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
223.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	300.0
90.0	CARBONDALE	DANVILLE	COAL	4.0	433.0
40.0	CARBONDALE	JAMESTOWN	COAL	-	483.0
36.0	CARBONDALE	HERRIN	COAL	-	487.0
-22.0	CARBONDALE	SPRINGFIELD	COAL	3.5	545.0
-122.0	CARBONDALE	HOUCHIN CREEK	COAL	-	645.0
-212.0	CARBONDALE	COLCHESTER	COAL	-	735.0
-239.0	SPOON	SEELYVILLE	COAL	4.0	762.0

MAPID: 03300634000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 17 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW SW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.774845 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.864718 DATE COLLECTED:

SURFACE ELEVATION (FT.): 474.0 LOGGED (FT.): 753.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
44.0	CARBONDALE	DANVILLE	COAL	4.0	430.0
-11.0	CARBONDALE	JAMESTOWN	COAL	-	485.0
-17.0	CARBONDALE	HERRIN	COAL	2.5	491.0
-77.0	CARBONDALE	SPRINGFIELD	COAL	3.0	551.0
-160.0	CARBONDALE	HOUCHIN CREEK	COAL	-	634.0
-260.0	CARBONDALE	COLCHESTER	COAL	-	734.0
-279.0	SPOON	SEELYVILLE	COAL	-	753.0

MAPID: 03303589000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 17 QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: STOY LONGITUDE: -87.767878 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.87598 DATE COLLECTED:

SURFACE ELEVATION (FT.): 502.0 LOGGED (FT.): 767.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
61.0	CARBONDALE	DANVILLE	COAL	3.5	441.0
10.0	CARBONDALE	JAMESTOWN	COAL	-	492.0
2.0	CARBONDALE	HERRIN	COAL	3.0	500.0
-53.0	CARBONDALE	SPRINGFIELD	COAL	3.0	555.0
-148.0	CARBONDALE	HOUCHIN CREEK	COAL	-	650.0
-248.0	CARBONDALE	COLCHESTER	COAL	-	750.0
-258.0	SPOON	SEELYVILLE	COAL	7.0	760.0

MAPID: 03300402000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 12W

SECTION: 18

QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: STOY

LONGITUDE: -87.78429

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.876789

DATE COLLECTED:

SURFACE ELEVATION (FT.): 506.0

LOGGED (FT.): 768.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
48.0	CARBONDALE	DANVILLE	COAL	4.0	458.0
-5.0	CARBONDALE	JAMESTOWN	COAL	-	511.0
-10.0	CARBONDALE	HERRIN	COAL	-	516.0
-65.0	CARBONDALE	SPRINGFIELD	COAL	3.0	571.0
-144.0	CARBONDALE	HOUCHIN CREEK	COAL	-	650.0
-251.0	CARBONDALE	COLCHESTER	COAL	-	757.0
-262.0	SPOON	SEELYVILLE	COAL	-	768.0

MAPID: 03303619000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 12W

SECTION: 18

QUARTERS/FOOTAGES: SW SW SE

QUADRANGLE: CHAUNCEY

LONGITUDE: -87.784281

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.865767

DATE COLLECTED:

SURFACE ELEVATION (FT.): 473.0

LOGGED (FT.): 775.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
23.0	CARBONDALE	DANVILLE	COAL	4.0	450.0
-30.0	CARBONDALE	JAMESTOWN	COAL	-	503.0
-37.0	CARBONDALE	HERRIN	COAL	3.0	510.0
-92.0	CARBONDALE	SPRINGFIELD	COAL	-	565.0
-172.0	CARBONDALE	HOUCHIN CREEK	COAL	-	645.0
-276.0	CARBONDALE	COLCHESTER	COAL	-	749.0
-297.0	SPOON	SEELYVILLE	COAL	5.0	770.0

MAPID: 03300619000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 19 QUARTERS/FOOTAGES: SE NE NE

QUADRANGLE: CHAUNCEY LONGITUDE: -87.77952 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.860823 DATE COLLECTED:

SURFACE ELEVATION (FT.): 436.0 LOGGED (FT.): 754.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
16.0	CARBONDALE	DANVILLE	COAL	3.5	420.0
-35.0	CARBONDALE	JAMESTOWN	COAL	-	471.0
-39.0	CARBONDALE	HERRIN	COAL	-	475.0
-103.0	CARBONDALE	SPRINGFIELD	COAL	3.5	539.0
-185.0	CARBONDALE	HOUCHIN CREEK	COAL	-	621.0
-289.0	CARBONDALE	COLCHESTER	COAL	-	725.0
-312.0	SPOON	SEELYVILLE	COAL	6.0	748.0

MAPID: 03301198000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 19 QUARTERS/FOOTAGES: NW SE NW

QUADRANGLE: CHAUNCEY LONGITUDE: -87.788926 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.860172 DATE COLLECTED:

SURFACE ELEVATION (FT.): 445.0 LOGGED (FT.): 748.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
27.0	CARBONDALE	DANVILLE	COAL	3.5	418.0
-36.0	CARBONDALE	JAMESTOWN	COAL	-	481.0
-41.0	CARBONDALE	HERRIN	COAL	-	486.0
-98.0	CARBONDALE	SPRINGFIELD	COAL	4.0	543.0
-175.0	CARBONDALE	HOUCHIN CREEK	COAL	-	620.0
-281.0	CARBONDALE	COLCHESTER	COAL	-	726.0
-299.0	SPOON	SEELYVILLE	COAL	4.0	744.0

MAPID: 03300519000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 20 QUARTERS/FOOTAGES: NE NE NW  
 QUADRANGLE: CHAUNCEY LONGITUDE: -87.770125 GEOLOGIST: C TREWORGY  
 CONFIDENTIAL: N LATITUDE: 38.863033 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 497.0 LOGGED (FT.): 799.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
47.0	CARBONDALE	DANVILLE	COAL	3.5	450.0	
-6.0	CARBONDALE	JAMESTOWN	COAL	-	503.0	
-12.0	CARBONDALE	HERRIN	COAL	-	509.0	
-92.0	CARBONDALE	SPRINGFIELD	COAL	2.5	589.0	
-183.0	CARBONDALE	HOUCHIN CREEK	COAL	-	680.0	
-276.0	CARBONDALE	COLCHESTER	COAL	-	773.0	
-299.0	SPOON	SEELYVILLE	COAL	3.0	796.0	

MAPID: 03300477000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 12W SECTION: 21 QUARTERS/FOOTAGES: NW SW NE  
 QUADRANGLE: BIRDS LONGITUDE: -87.749008 GEOLOGIST: C TREWORGY  
 CONFIDENTIAL: N LATITUDE: 38.859914 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 484.0 LOGGED (FT.): 781.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
52.0	CARBONDALE	DANVILLE	COAL	3.5	432.0	
-14.0	CARBONDALE	JAMESTOWN	COAL	-	498.0	
-86.0	CARBONDALE	SPRINGFIELD	COAL	-	570.0	
-184.0	CARBONDALE	HOUCHIN CREEK	COAL	-	668.0	
-281.0	CARBONDALE	COLCHESTER	COAL	-	765.0	
-297.0	SPOON	SEELYVILLE	COAL	-	781.0	



MAPID: 03300521000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 12W

SECTION: 21

QUARTERS/FOOTAGES: SE NW SW

QUADRANGLE: CHAUNCEY

LONGITUDE: -87.756033

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.854122

DATE COLLECTED:

SURFACE ELEVATION (FT.): 463.0

LOGGED (FT.): 772.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
48.0	CARBONDALE	DANVILLE	COAL	3.0	415.0
-9.0	CARBONDALE	JAMESTOWN	COAL	-	472.0
-12.0	CARBONDALE	HERRIN	COAL	-	475.0
-97.0	CARBONDALE	SPRINGFIELD	COAL	-	560.0
-192.0	CARBONDALE	HOUCHIN CREEK	COAL	-	655.0
-290.0	CARBONDALE	COLCHESTER	COAL	-	753.0
-306.0	SPOON	SEELYVILLE	COAL	3.0	769.0

MAPID: 03300196000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 13W

SECTION: 1

QUARTERS/FOOTAGES: NW NE NE

QUADRANGLE: STOY

LONGITUDE: -87.798546

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.908087

DATE COLLECTED:

SURFACE ELEVATION (FT.): 467.0

LOGGED (FT.): 672.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
113.0	CARBONDALE	DANVILLE	COAL	3.5	354.0
67.0	CARBONDALE	HERRIN	COAL	-	400.0
1.0	CARBONDALE	SPRINGFIELD	COAL	2.5	466.0
-77.0	CARBONDALE	HOUCHIN CREEK	COAL	-	544.0
-188.0	CARBONDALE	COLCHESTER	COAL	-	655.0
-205.0	SPOON	SEELYVILLE	COAL	-	672.0

**MAPID:** 03301037000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 5N 13W    **SECTION:** 1    **QUARTERS/FOOTAGES:** SE SE SE  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.79612    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.895079    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 468.0    **LOGGED (FT.):** 655.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
118.0	CARBONDALE	DANVILLE	COAL	3.0	350.0	
64.0	CARBONDALE	JAMESTOWN	COAL	-	404.0	
61.0	CARBONDALE	HERRIN	COAL	-	407.0	
6.0	CARBONDALE	SPRINGFIELD	COAL	4.0	462.0	
-77.0	CARBONDALE	HOUCHIN CREEK	COAL	-	545.0	
-187.0	CARBONDALE	COLCHESTER	COAL	-	655.0	

**MAPID:** 03330009000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 5N 13W    **SECTION:** 1    **QUARTERS/FOOTAGES:** NE NW NW  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.810705    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.90801    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 444.0    **LOGGED (FT.):** 640.0    **LOG TYPE:** Nuclear Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
141.0	CARBONDALE	DANVILLE	COAL	3.0	303.0	
85.0	CARBONDALE	JAMESTOWN	COAL	2.0	359.0	
81.0	CARBONDALE	HERRIN	COAL	2.0	363.0	
26.0	CARBONDALE	SPRINGFIELD	COAL	3.5	418.0	
-56.0	CARBONDALE	HOUCHIN CREEK	COAL	-	500.0	
-166.0	CARBONDALE	COLCHESTER	COAL	-	610.0	
-191.0	SPOON	SEELYVILLE	COAL	5.0	635.0	

**MAPID:** 03307297000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 5N 13W    **SECTION:** 2    **QUARTERS/FOOTAGES:** SW SE NE  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.817775    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.902391    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 448.0    **LOGGED (FT.):** 657.0    **LOG TYPE:** Nuclear Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
177.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	271.0
117.0	CARBONDALE	DANVILLE	COAL	3.0	331.0
63.0	CARBONDALE	JAMESTOWN	COAL	-	385.0
58.0	CARBONDALE	HERRIN	COAL	-	390.0
2.0	CARBONDALE	SPRINGFIELD	COAL	3.0	446.0
-78.0	CARBONDALE	HOUCHIN CREEK	COAL	-	526.0
-197.0	CARBONDALE	COLCHESTER	COAL	-	645.0
-209.0	SPOON	SEELYVILLE	COAL	-	657.0

**MAPID:** 03324744000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 5N 13W    **SECTION:** 2    **QUARTERS/FOOTAGES:** 690' S line, 10' E line of NE  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.814296    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.903363    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 440.0    **LOGGED (FT.):** 635.0    **LOG TYPE:** Nuclear Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
129.0	CARBONDALE	DANVILLE	COAL	3.0	311.0
79.0	CARBONDALE	JAMESTOWN	COAL	3.0	361.0
73.0	CARBONDALE	HERRIN	COAL	2.0	367.0
17.0	CARBONDALE	SPRINGFIELD	COAL	2.0	423.0
-60.0	CARBONDALE	HOUCHIN CREEK	COAL	-	500.0
-180.0	CARBONDALE	COLCHESTER	COAL	-	620.0
-189.0	SPOON	SEELYVILLE	COAL	6.0	629.0

**MAPID:** 03329814000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 5N 13W    **SECTION:** 2    **QUARTERS/FOOTAGES:** SW SE NW  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.827203    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.902387    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 469.0    **LOGGED (FT.):** 740.0    **LOG TYPE:** Nuclear Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
131.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	338.0
46.0	CARBONDALE	DANVILLE	COAL	2.5	423.0
0.0	CARBONDALE	JAMESTOWN	COAL	-	469.0
-3.0	CARBONDALE	HERRIN	COAL	-	472.0
-55.0	CARBONDALE	SPRINGFIELD	COAL	3.0	524.0
-132.0	CARBONDALE	HOUCHIN CREEK	COAL	-	601.0
-245.0	CARBONDALE	COLCHESTER	COAL	-	714.0
-266.0	SPOON	SEELYVILLE	COAL	5.0	735.0

**MAPID:** 03303696000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 5N 13W    **SECTION:** 3    **QUARTERS/FOOTAGES:** NW NE NE  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.836604    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.908035    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 489.0    **LOGGED (FT.):** 770.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
119.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	370.0
44.0	CARBONDALE	DANVILLE	COAL	2.0	445.0
-3.0	CARBONDALE	JAMESTOWN	COAL	-	492.0
-7.0	CARBONDALE	HERRIN	COAL	1.5	496.0
-60.0	CARBONDALE	SPRINGFIELD	COAL	3.5	549.0
-138.0	CARBONDALE	HOUCHIN CREEK	COAL	-	627.0
-250.0	CARBONDALE	COLCHESTER	COAL	-	739.0
-276.0	SPOON	SEELYVILLE	COAL	5.0	765.0

**MAPID:** 0332493000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 5N 13W    **SECTION:** 3    **QUARTERS/FOOTAGES:** NE SE NE  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.834264    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.904274    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 476.0    **LOGGED (FT.):** 774.0    **LOG TYPE:** Nuclear Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
22.0	CARBONDALE	DANVILLE	COAL	3.0	454.0
-21.0	CARBONDALE	JAMESTOWN	COAL	2.5	497.0
-25.0	CARBONDALE	HERRIN	COAL	1.5	501.0
-80.0	CARBONDALE	SPRINGFIELD	COAL	2.0	556.0
-158.0	CARBONDALE	HOUCHIN CREEK	COAL	-	634.0
-273.0	CARBONDALE	COLCHESTER	COAL	-	749.0
-292.0	SPOON	SEELYVILLE	COAL	6.0	768.0

**MAPID:** 03300203000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 5N 13W    **SECTION:** 4    **QUARTERS/FOOTAGES:** NE NE SW  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.862308    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.90076    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 464.0    **LOGGED (FT.):** 1011.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-82.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	546.0
-198.0	CARBONDALE	DANVILLE	COAL	2.0	662.0
-254.0	CARBONDALE	JAMESTOWN	COAL	-	718.0
-256.0	CARBONDALE	HERRIN	COAL	-	720.0
-313.0	CARBONDALE	SPRINGFIELD	COAL	5.0	777.0
-396.0	CARBONDALE	HOUCHIN CREEK	COAL	-	860.0
-520.0	CARBONDALE	COLCHESTER	COAL	-	984.0
-547.0	SPOON	SEELYVILLE	COAL	-	1011.0

MAPID: 0330906000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 13W SECTION: 5 QUARTERS/FOOTAGES: SE NE SW

QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.881104 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.898826 DATE COLLECTED:

SURFACE ELEVATION (FT.): 436.0 LOGGED (FT.): 1051.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-161.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	597.0	
-286.0	CARBONDALE	DANVILLE	COAL	-	722.0	
-339.0	CARBONDALE	JAMESTOWN	COAL	-	775.0	
-345.0	CARBONDALE	HERRIN	COAL	-	781.0	
-407.0	CARBONDALE	SPRINGFIELD	COAL	-	843.0	
-494.0	CARBONDALE	HOUCHIN CREEK	COAL	-	930.0	
-615.0	CARBONDALE	COLCHESTER	COAL	-	1051.0	

MAPID: 03300204000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 13W SECTION: 7 QUARTERS/FOOTAGES: SW SW NW

QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.906708 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.887787 DATE COLLECTED:

SURFACE ELEVATION (FT.): 441.0 LOGGED (FT.): 1175.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-226.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	667.0	
-361.0	CARBONDALE	DANVILLE	COAL	-	802.0	
-419.0	CARBONDALE	JAMESTOWN	COAL	-	860.0	
-425.0	CARBONDALE	HERRIN	COAL	-	866.0	
-490.0	CARBONDALE	SPRINGFIELD	COAL	-	931.0	
-608.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1049.0	
-709.0	CARBONDALE	COLCHESTER	COAL	-	1150.0	
-732.0	SPOON	SEELYVILLE	COAL	2.5	1173.0	

MAPID: 03300205000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 13W SECTION: 8 QUARTERS/FOOTAGES: SW NE SW

QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.883478 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.884103 DATE COLLECTED:

SURFACE ELEVATION (FT.): 449.0 LOGGED (FT.): 1086.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-156.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	605.0
-280.0	CARBONDALE	DANVILLE	COAL	-	729.0
-335.0	CARBONDALE	JAMESTOWN	COAL	-	784.0
-340.0	CARBONDALE	HERRIN	COAL	2.5	789.0
-403.0	CARBONDALE	SPRINGFIELD	COAL	3.0	852.0
-501.0	CARBONDALE	HOUCHIN CREEK	COAL	-	950.0
-615.0	CARBONDALE	COLCHESTER	COAL	-	1064.0
-633.0	SPOON	SEELYVILLE	COAL	4.5	1082.0

MAPID: 03300206000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 13W SECTION: 11 QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: STOY LONGITUDE: -87.815272 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.893072 DATE COLLECTED:

SURFACE ELEVATION (FT.): 436.0 LOGGED (FT.): 729.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
142.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	294.0
35.0	CARBONDALE	DANVILLE	COAL	2.5	401.0
-18.0	CARBONDALE	JAMESTOWN	COAL	-	454.0
-21.0	CARBONDALE	HERRIN	COAL	-	457.0
-79.0	CARBONDALE	SPRINGFIELD	COAL	3.5	515.0
-157.0	CARBONDALE	HOUCHIN CREEK	COAL	-	593.0
-267.0	CARBONDALE	COLCHESTER	COAL	-	703.0
-288.0	SPOON	SEELYVILLE	COAL	5.0	724.0

**MAPID:** 0330185000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 5N 13W    **SECTION:** 12    **QUARTERS/FOOTAGES:** NW NW NE  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.803302    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.893171    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 460.0    **LOGGED (FT.):** 691.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
45.0	CARBONDALE	JAMESTOWN	COAL	-	415.0
37.0	CARBONDALE	HERRIN	COAL	-	423.0
-15.0	CARBONDALE	SPRINGFIELD	COAL	5.0	475.0
-90.0	CARBONDALE	HOUCHIN CREEK	COAL	-	550.0
-206.0	CARBONDALE	COLCHESTER	COAL	-	666.0
-226.0	SPOON	SEELYVILLE	COAL	5.0	686.0

**MAPID:** 03302485000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 5N 13W    **SECTION:** 13    **QUARTERS/FOOTAGES:** SE SW SE  
**QUADRANGLE:** CHAUNCEY    **LONGITUDE:** -87.800685    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.865704    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 444.0    **LOGGED (FT.):** 763.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
103.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	341.0
-9.0	CARBONDALE	DANVILLE	COAL	2.5	453.0
-61.0	CARBONDALE	JAMESTOWN	COAL	-	505.0
-64.0	CARBONDALE	HERRIN	COAL	-	508.0
-119.0	CARBONDALE	SPRINGFIELD	COAL	4.0	563.0
-196.0	CARBONDALE	HOUCHIN CREEK	COAL	-	640.0
-306.0	CARBONDALE	COLCHESTER	COAL	-	750.0
-319.0	SPOON	SEELYVILLE	COAL	-	763.0



MAPID: 03303715000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 13W

SECTION: 13

QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: STOY

LONGITUDE: -87.796035

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.878588

DATE COLLECTED:

SURFACE ELEVATION (FT.): 490.0

LOGGED (FT.): 778.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
29.0	CARBONDALE	DANVILLE	COAL	3.0	461.0
-28.0	CARBONDALE	JAMESTOWN	COAL	-	518.0
-32.0	CARBONDALE	HERRIN	COAL	-	522.0
-85.0	CARBONDALE	SPRINGFIELD	COAL	3.5	575.0
-164.0	CARBONDALE	HOUCHIN CREEK	COAL	-	654.0
-265.0	CARBONDALE	COLCHESTER	COAL	-	755.0
-284.0	SPOON	SEELYVILLE	COAL	4.0	774.0

MAPID: 03300003000C VERSION: 1

PROJECT: CONTROL

COUNTY: CRAWFORD

TWP/RNG: 5N 13W

SECTION: 20

QUARTERS/FOOTAGES: 330' N line, 330' E line of NE SE NE

QUADRANGLE: CHAUNCEY

LONGITUDE: -87.87175

GEOLOGIST: HINES

CONFIDENTIAL: N

LATITUDE: 38.860048

DATE COLLECTED:

SURFACE ELEVATION (FT.):

LOGGED (FT.): 2555.0

LOG TYPE: Survey Sample Study

SOURCE: RUSH & MERIDETH

WELL TYPE: Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			NO RECORD	0.0	0.0

MAPID: 03300910000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 13W

SECTION: 22

QUARTERS/FOOTAGES: NE SE NW

QUADRANGLE: CHAUNCEY

LONGITUDE: -87.843401

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.859987

DATE COLLECTED:

SURFACE ELEVATION (FT.): 462.0

LOGGED (FT.): 997.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-60.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	522.0
-183.0	CARBONDALE	DANVILLE	COAL	2.0	645.0
-236.0	CARBONDALE	JAMESTOWN	COAL	-	698.0
-239.0	CARBONDALE	HERRIN	COAL	2.5	701.0
-298.0	CARBONDALE	SPRINGFIELD	COAL	4.0	760.0
-385.0	CARBONDALE	HOUCHIN CREEK	COAL	-	847.0
-499.0	CARBONDALE	COLCHESTER	COAL	-	961.0
-529.0	SPOON	SEELYVILLE	COAL	6.0	991.0

MAPID: 03300513000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 13W

SECTION: 23

QUARTERS/FOOTAGES: NE SW NE

QUADRANGLE: CHAUNCEY

LONGITUDE: -87.819735

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.860036

DATE COLLECTED:

SURFACE ELEVATION (FT.): 435.0

LOGGED (FT.): 833.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
59.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	376.0
-50.0	CARBONDALE	DANVILLE	COAL	2.0	485.0
-110.0	CARBONDALE	JAMESTOWN	COAL	-	545.0
-114.0	CARBONDALE	HERRIN	COAL	-	549.0
-176.0	CARBONDALE	SPRINGFIELD	COAL	-	611.0
-260.0	CARBONDALE	HOUCHIN CREEK	COAL	-	695.0
-365.0	CARBONDALE	COLCHESTER	COAL	-	800.0
-394.0	SPOON	SEELYVILLE	COAL	4.0	829.0

MAPID: 03300207000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 5N 13W    SECTION: 24    QUARTERS/FOOTAGES: SW SW NW

QUADRANGLE: CHAUNCEY    LONGITUDE: -87.812691    GEOLOGIST: C TREWORYG

CONFIDENTIAL: N    LATITUDE: 38.858189    DATE COLLECTED:

SURFACE ELEVATION (FT.): 428.0    LOGGED (FT.): 799.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
76.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	352.0
-37.0	CARBONDALE	DANVILLE	COAL	2.5	465.0
-95.0	CARBONDALE	JAMESTOWN	COAL	-	523.0
-99.0	CARBONDALE	HERRIN	COAL	-	527.0
-159.0	CARBONDALE	SPRINGFIELD	COAL	3.0	587.0
-241.0	CARBONDALE	HOUCHIN CREEK	COAL	-	669.0
-351.0	CARBONDALE	COLCHESTER	COAL	-	779.0
-368.0	SPOON	SEELYVILLE	COAL	3.0	796.0

MAPID: 03303738000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 5N 13W    SECTION: 24    QUARTERS/FOOTAGES: NE NW SE

QUADRANGLE: CHAUNCEY    LONGITUDE: -87.800745    GEOLOGIST: C TREWORYG

CONFIDENTIAL: N    LATITUDE: 38.856405    DATE COLLECTED:

SURFACE ELEVATION (FT.): 435.0    LOGGED (FT.): 758.5    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
106.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	329.0
-3.0	CARBONDALE	DANVILLE	COAL	2.0	438.0
-58.0	CARBONDALE	JAMESTOWN	COAL	-	493.0
-60.0	CARBONDALE	HERRIN	COAL	-	495.0
-120.0	CARBONDALE	SPRINGFIELD	COAL	3.0	555.0
-197.0	CARBONDALE	HOUCHIN CREEK	COAL	-	632.0
-305.0	CARBONDALE	COLCHESTER	COAL	-	740.0
-320.0	SPOON	SEELYVILLE	COAL	3.5	755.0

MAPID: 03300710000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 14W SECTION: 12 QUARTERS/FOOTAGES: SW SE SE

QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.911388 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.880388 DATE COLLECTED:

SURFACE ELEVATION (FT.): 446.0 LOGGED (FT.): 1176.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-242.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	688.0
-383.0	CARBONDALE	DANVILLE	COAL	-	829.0
-444.0	CARBONDALE	HERRIN	COAL	5.0	890.0
-512.0	CARBONDALE	SPRINGFIELD	COAL	3.0	958.0
-613.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1059.0
-730.0	CARBONDALE	COLCHESTER	COAL	-	1176.0

MAPID: 03300208000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 5N 14W SECTION: 23 QUARTERS/FOOTAGES: 660' N line, 660' W line of SE

QUADRANGLE: LANDES LONGITUDE: -87.934009 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.855618 DATE COLLECTED:

SURFACE ELEVATION (FT.): 466.0 LOGGED (FT.): 1130.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-336.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	802.0
-441.0	CARBONDALE	DANVILLE	COAL	2.0	907.0
-503.0	CARBONDALE	JAMESTOWN	COAL	2.5	969.0
-514.0	CARBONDALE	HERRIN	COAL	-	980.0
-571.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1037.0
-664.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1130.0

MAPID: 03300407000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 5N 14W

SECTION: 24

QUARTERS/FOOTAGES: NW SW NW

QUADRANGLE: LANDES

LONGITUDE: -87.925616

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.860188

DATE COLLECTED:

SURFACE ELEVATION (FT.): 474.0

LOGGED (FT.): 1291.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-279.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	753.0	
-418.0	CARBONDALE	DANVILLE	COAL	-	892.0	
-482.0	CARBONDALE	HERRIN	COAL	-	956.0	
-545.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1019.0	
-631.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1105.0	
-782.0	CARBONDALE	COLCHESTER	COAL	-	1256.0	
-814.0	SPOON	SEELYVILLE	COAL	3.0	1288.0	

MAPID: 03303745000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 10W

SECTION: 17

QUARTERS/FOOTAGES: 2006' S line, 990' W line of SW

QUADRANGLE: HEATHSVILLE

LONGITUDE: -87.553711

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.963499

DATE COLLECTED:

SURFACE ELEVATION (FT.): 468.0

LOGGED (FT.): 654.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
193.0	CARBONDALE	DANVILLE	COAL	-	275.0	
146.0	CARBONDALE	JAMESTOWN	COAL	-	322.0	
66.0	CARBONDALE	SPRINGFIELD	COAL	-	402.0	
-27.0	CARBONDALE	HOUCHIN CREEK	COAL	-	495.0	
-164.0	CARBONDALE	COLCHESTER	COAL	-	632.0	
-186.0	SPOON	SEELYVILLE	COAL	-	654.0	

MAPID: 03303041000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 10W

SECTION: 18

QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: HEATHSVILLE

LONGITUDE: -87.574246

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.958912

DATE COLLECTED:

SURFACE ELEVATION (FT.): 462.0

LOGGED (FT.): 541.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
231.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	231.0
141.0	CARBONDALE	DANVILLE	COAL	-	321.0
93.0	CARBONDALE	JAMESTOWN	COAL	-	369.0
22.0	CARBONDALE	SPRINGFIELD	COAL	-	440.0
-79.0	CARBONDALE	HOUCHIN CREEK	COAL	-	541.0

MAPID: 03300281000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 10W

SECTION: 19

QUARTERS/FOOTAGES: 2032' N line, 3563' W line

QUADRANGLE: HEATHSVILLE

LONGITUDE: -87.562769

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.952326

DATE COLLECTED:

SURFACE ELEVATION (FT.): 457.0

LOGGED (FT.): 684.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
151.0	CARBONDALE	DANVILLE	COAL	4.0	306.0
102.0	CARBONDALE	JAMESTOWN	COAL	3.0	355.0
37.0	CARBONDALE	SPRINGFIELD	COAL	-	420.0
-55.0	CARBONDALE	HOUCHIN CREEK	COAL	-	512.0
-205.0	CARBONDALE	COLCHESTER	COAL	-	662.0
-220.0	SPOON	SEELYVILLE	COAL	7.0	677.0

MAPID: 03390103000C VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD TWP/RNG: 6N 10W SECTION: 19 QUARTERS/FOOTAGES: 200' S line, 660' E line of SE SE

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.559662 GEOLOGIST: LAWSON

CONFIDENTIAL: N LATITUDE: 38.943377 DATE COLLECTED: 5 / 11 / 1967

SURFACE ELEVATION (FT.): 465.0 LOGGED (FT.): 568.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 4 WELL TYPE: Coal Test

COMMENT: CRAWFORD CO.BOX 33

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
465.0	PLEISTOCENE		UNCONSOLIDATED	6.0	0.0
459.0			ROCK	64.0	6.0
395.0			COAL	1.5	70.0
393.5			ROCK	165.5	71.5
228.0			COAL	1.0	237.0
227.0			ROCK	97.0	238.0
130.0	CARBONDALE	DANVILLE	COAL	3.7	335.0
126.3	CARBONDALE		ROCK	46.8	338.7
79.5	CARBONDALE	JAMESTOWN	COAL	1.0	385.5
78.5	CARBONDALE	JAMESTOWN	CLAYSTONE	0.3	386.5
78.2	CARBONDALE	JAMESTOWN	COAL	0.5	386.8
77.7	CARBONDALE		ROCK	36.7	387.3
41.0	CARBONDALE	BRIAR HILL	COAL	1.0	424.0
40.0	CARBONDALE		ROCK	21.0	425.0
19.0	CARBONDALE	SPRINGFIELD	COAL	2.4	446.0
16.6	CARBONDALE		ROCK	86.6	448.4
-70.0	CARBONDALE	HOUCHIN CREEK	COAL	1.5	535.0
-71.5	CARBONDALE		ROCK	31.5	536.5

MAPID: 03302725000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 10W SECTION: 20 QUARTERS/FOOTAGES: 75' N line, 75' E line of NW NE

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.543308 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.957887 DATE COLLECTED:

SURFACE ELEVATION (FT.): 431.0 LOGGED (FT.): 574.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
251.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	180.0
169.0	CARBONDALE	DANVILLE	COAL	3.5	262.0
111.0	CARBONDALE	JAMESTOWN	COAL	3.0	320.0
101.0	CARBONDALE	HERRIN	COAL	-	330.0
51.0	CARBONDALE	SPRINGFIELD	COAL	4.0	380.0
-59.0	CARBONDALE	HOUCHIN CREEK	COAL	-	490.0
-143.0	CARBONDALE	COLCHESTER	COAL	-	574.0

MAPID: 03302832000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 10W SECTION: 29 QUARTERS/FOOTAGES: 906' S line, 125' W line of NW

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.556904 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.937822 DATE COLLECTED:

SURFACE ELEVATION (FT.): 527.0 LOGGED (FT.): 728.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
142.0	CARBONDALE	DANVILLE	COAL	4.0	385.0
83.0	CARBONDALE	JAMESTOWN	COAL	-	444.0
72.0	CARBONDALE	HERRIN	COAL	-	455.0
11.0	CARBONDALE	SPRINGFIELD	COAL	3.5	516.0
-86.0	CARBONDALE	HOUCHIN CREEK	COAL	-	613.0
-163.0	CARBONDALE	COLCHESTER	COAL	-	690.0
-195.0	SPOON	SEELYVILLE	COAL	6.0	722.0

MAPID: 03390102000C VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD TWP/RNG: 6N 10W SECTION: 29 QUARTERS/FOOTAGES: 1' S line, 780' E line of SE SW

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.550672 GEOLOGIST: LAWSON

CONFIDENTIAL: N LATITUDE: 38.927744 DATE COLLECTED: 5 / 16 / 1967

SURFACE ELEVATION (FT.): 462.2 LOGGED (FT.): 600.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 3 WELL TYPE: Coal Test

COMMENT: CRAWFORD CO.BOX 33 CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
462.2	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0
447.2			ROCK	111.0	15.0
336.2	MODESTO	CHAPEL	COAL	2.0	126.0
334.2	MODESTO		ROCK	136.0	128.0
198.2	MODESTO		COAL	1.0	264.0
197.2	MODESTO		ROCK	48.0	265.0
149.2	CARBONDALE	DANVILLE	COAL	2.2	313.0
147.0	CARBONDALE		ROCK	44.3	315.2
102.7	CARBONDALE	JAMESTOWN	COAL	3.8	359.5
98.9	CARBONDALE		ROCK	5.4	363.3
93.5	CARBONDALE	HERRIN	COAL	0.5	368.7
93.0	CARBONDALE		ROCK	26.8	369.2
66.2	CARBONDALE	BRIAR HILL	COAL	0.7	396.0
65.5	CARBONDALE		ROCK	31.8	396.7
33.7	CARBONDALE	SPRINGFIELD	COAL	2.6	428.5
31.1	CARBONDALE		ROCK	98.9	431.1
-67.8	CARBONDALE	HOUCHIN CREEK	COAL	1.5	530.0
-69.3	CARBONDALE		ROCK	68.5	531.5



MAPID: 03300037000C    VERSION: 1

PROJECT: NCRDS88

COUNTY: CRAWFORD    TWP/RNG: 6N 11W    SECTION: 2    QUARTERS/FOOTAGES: 660' S line, 330' W line of SE

QUADRANGLE: HEATHSVILLE

LONGITUDE: -87.602464

GEOLOGIST: R. SMITH

CONFIDENTIAL: N

LATITUDE: 38.987907

DATE COLLECTED: 0 / 0 / 1903

SURFACE ELEVATION (FT.): 460.0

LOGGED (FT.): 928.0

LOG TYPE: Other Core Study

SOURCE: J.F. HARDESTY

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
460.0			UNCONSOLIDATED	16.0	0.0
444.0	BOND		DARK SHALE	7.0	16.0
437.0	BOND		CLAYSTONE & SHALE	12.0	23.0
425.0	BOND		BLACK SHALE	2.8	35.0
422.2	BOND		COAL	0.3	37.8
422.0	BOND		UNDERCLAY	5.0	38.0
417.0	BOND		SANDY SHALE	1.1	43.0
415.9	BOND		SANDSTONE	4.9	44.1
411.0	BOND		BLUE SHALE	19.5	49.0
391.5	BOND		BLACK SHALE	0.5	68.5
391.0	BOND		COAL	1.8	69.0
389.2	BOND		BLACK SHALE	0.3	70.8
388.9	BOND		COAL	1.0	71.1
387.9	BOND		UNDERCLAY	4.0	72.1
383.9	BOND		SANDSTONE	4.9	76.1
379.0	BOND		SANDY SHALE	11.0	81.0
368.0	BOND		SANDSTONE	4.0	92.0
364.0	BOND		SANDY SHALE	17.6	96.0
346.4	BOND	CARTHAGE	LIMESTONE	2.9	113.6
343.5	MODESTO		BLUE SHALE	34.0	116.5
309.5	MODESTO		BLACK SHALE	1.5	150.5
308.0	MODESTO		DARK SHALE	9.5	152.0
298.5	MODESTO		BLACK SHALE	2.0	161.5
296.5	MODESTO		COAL	0.5	163.5
296.0	MODESTO		UNDERCLAY	6.3	164.0
289.7	MODESTO		SANDY SHALE	55.2	170.3
234.5	MODESTO		SANDSTONE	8.5	225.5
226.0	MODESTO		COAL	0.7	234.0
225.3	MODESTO		UNDERCLAY	3.3	234.7
222.0	MODESTO		SANDY SHALE	19.0	238.0
203.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	257.0
199.0	MODESTO	WEST FRANKLIN	CLAYSTONE & SHALE	10.0	261.0
189.0	MODESTO	WEST FRANKLIN	LIMESTONE W/ SHALE	10.0	271.0
179.0	MODESTO		DARK SHALE	8.6	281.0
170.4	MODESTO	PIRTLE (IN)	COAL	0.3	289.6
170.2	MODESTO		UNDERCLAY	0.2	289.8
170.0	MODESTO		SANDY SHALE	12.0	290.0
158.0	MODESTO		SANDSTONE/SHALE	15.5	302.0
142.5	MODESTO		SANDY SHALE	8.5	317.5

134.0	MODESTO		BLUE SHALE	19.0	326.0
115.0	CARBONDALE	DANVILLE	COAL	3.2	345.0
111.8	CARBONDALE		UNDERCLAY	5.8	348.2
106.0	CARBONDALE		LIMESTONE	2.0	354.0
104.0	CARBONDALE		SHALE	6.0	356.0
98.0	CARBONDALE		SANDSTONE/SHALE	17.0	362.0
81.0	CARBONDALE		SHALE	14.0	379.0
67.0	CARBONDALE	JAMESTOWN	COAL	3.1	393.0
63.9	CARBONDALE		UNDERCLAY	1.0	396.1
62.9	CARBONDALE		BLACK SHALE	6.9	397.1
56.0	CARBONDALE	HERRIN	COAL	1.0	404.0
55.0	CARBONDALE		UNDERCLAY	6.5	405.0
48.5	CARBONDALE		CLAYSTONE & SHALE	12.5	411.5
36.0	CARBONDALE		BLACK SHALE	1.0	424.0
35.0	CARBONDALE		BLUE SHALE	3.3	425.0
31.7	CARBONDALE		SANDSTONE	10.6	428.3
21.1	CARBONDALE		BLUE SHALE	2.5	438.9
18.6	CARBONDALE	BRIAR HILL	COAL	0.3	441.4
18.3	CARBONDALE	BRIAR HILL	BLUE SHALE	0.0	441.7
18.3	CARBONDALE	BRIAR HILL	COAL	0.0	441.7
18.2	CARBONDALE	BRIAR HILL	BLUE SHALE	0.3	441.8
18.0	CARBONDALE	BRIAR HILL	COAL	0.4	442.0
17.6	CARBONDALE	BRIAR HILL	BLUE SHALE	0.9	442.4
16.7	CARBONDALE	BRIAR HILL	COAL	0.2	443.3
16.5	CARBONDALE	BRIAR HILL	BLUE SHALE	1.1	443.5
15.4	CARBONDALE	BRIAR HILL	COAL	0.2	444.6
15.2	CARBONDALE		BLUE SHALE	0.1	444.8
15.2	CARBONDALE		UNDERCLAY	0.2	444.8
15.0	CARBONDALE		BLUE SHALE	6.8	445.0
8.2	CARBONDALE		DARK SHALE	4.0	451.8
4.2	CARBONDALE	SPRINGFIELD	COAL	2.5	455.8
1.7	CARBONDALE		UNDERCLAY	5.7	458.3
-4.0	CARBONDALE		SANDY SHALE	1.0	464.0
-5.0	CARBONDALE		SANDSTONE	33.0	465.0
-38.0	CARBONDALE		SANDY SHALE	34.0	498.0
-72.0	CARBONDALE		BLUE SHALE	35.0	532.0
-107.0	CARBONDALE	EXCELLO	BLACK SHALE	6.5	567.0
-113.5	CARBONDALE	HOUCHIN CREEK	COAL	2.0	573.5
-115.5	CARBONDALE		UNDERCLAY	1.5	575.5
-117.0	CARBONDALE		SANDY SHALE	9.3	577.0
-126.3	CARBONDALE		BLUE SHALE	4.0	586.3
-130.3	CARBONDALE	SURVANT	COAL	4.4	590.3
-134.8	CARBONDALE		DARK SHALE	30.3	594.8
-165.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	8.0	625.0
-173.0	CARBONDALE	COLCHESTER	COAL	1.0	633.0
-174.0	SPOON		UNDERCLAY	2.0	634.0
-176.0	SPOON		SANDSTONE	7.0	636.0
-183.0	SPOON		BLUE SHALE	1.4	643.0

-184.4	SPOON		COAL	0.6	644.4
-185.0	SPOON		UNDERCLAY	1.0	645.0
-186.0	SPOON		SANDY SHALE	11.8	646.0
-197.8	SPOON	SEELYVILLE	COAL	0.8	657.8
-198.5	SPOON	SEELYVILLE	BLACK SHALE	0.8	658.5
-199.3	SPOON	SEELYVILLE	COAL WITH SHALE	0.2	659.3
-199.4	SPOON	SEELYVILLE	BLUE SHALE	0.6	659.4
-200.0	SPOON	SEELYVILLE	COAL	1.6	660.0
-201.6	SPOON	SEELYVILLE	COAL WITH SHALE	1.5	661.6
-203.1	SPOON		BLACK SHALE	0.8	663.1
-203.9	SPOON		SANDSTONE	0.6	663.9
-204.5	SPOON		DARK SHALE	26.5	664.5
-231.0	SPOON		SANDY SHALE	0.5	691.0
-231.5	SPOON		SANDSTONE	0.5	691.5
-232.0			SANDY SHALE	1.8	692.0
-233.8			SANDSTONE	21.3	693.8
-255.0			BLACK SHALE	1.2	715.0
-256.2			COAL	0.8	716.2
-257.0			SANDY SHALE	43.0	717.0
-300.0			SANDSTONE/SHALE	18.0	760.0
-318.0			BLUE SHALE	33.0	778.0
-351.0			SANDSTONE/SHALE	17.0	811.0
-368.0			DARK SHALE	23.2	828.0
-391.2			COAL	0.3	851.2
-391.5			BLACK SHALE	5.5	851.5
-397.0			SANDY SHALE	10.0	857.0
-407.0			COAL	0.5	867.0
-407.5			SANDY SHALE	11.5	867.5
-419.0			SANDSTONE	4.0	879.0
-423.0			BLACK SHALE	0.3	883.0
-423.3			COAL	0.7	883.3
-424.0			BLACK SHALE	0.3	884.0
-424.3			SANDSTONE	25.7	884.3
-450.0			SANDSTONE/SHALE	15.5	910.0
-465.5			SHALE & SANDSTONE	2.5	925.5

---

MAPID: 03300037000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 2 QUARTERS/FOOTAGES: 660' S line, 330' W line of SE

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.602464 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.987907 DATE COLLECTED:

SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 661.1 LOG TYPE: Survey Core Study

SOURCE: WELL TYPE: Coal Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
203.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	257.0
115.0	CARBONDALE	DANVILLE	COAL	3.2	345.0
67.0	CARBONDALE	JAMESTOWN	COAL	3.1	393.0
56.0	CARBONDALE	HERRIN	COAL	1.0	404.0
4.0	CARBONDALE	SPRINGFIELD	COAL	2.5	456.0
-113.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	573.0
-184.0	CARBONDALE	COLCHESTER	COAL	0.6	644.0
-198.0	SPOON	SEELYVILLE	COAL	3.1	658.0

MAPID: 03300285000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 2 QUARTERS/FOOTAGES: NE SE SE

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.595301 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.988784 DATE COLLECTED:

SURFACE ELEVATION (FT.): 559.0 LOGGED (FT.): 768.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
196.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	363.0
109.0	CARBONDALE	DANVILLE	COAL	3.0	450.0
57.0	CARBONDALE	JAMESTOWN	COAL	3.0	502.0
46.0	CARBONDALE	HERRIN	COAL	2.0	513.0
-3.0	CARBONDALE	SPRINGFIELD	COAL	3.5	562.0
-118.0	CARBONDALE	HOUCHIN CREEK	COAL	-	677.0
-184.0	CARBONDALE	COLCHESTER	COAL	-	743.0
-203.0	SPOON	SEELYVILLE	COAL	6.0	762.0

MAPID: 03330144000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 11W

SECTION: 3

QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.630629

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.999093

DATE COLLECTED:

SURFACE ELEVATION (FT.): 450.0

LOGGED (FT.): 580.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
174.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	276.0
85.0	CARBONDALE	DANVILLE	COAL	-	365.0
39.0	CARBONDALE	JAMESTOWN	COAL	-	411.0
-23.0	CARBONDALE	SPRINGFIELD	COAL	-	473.0
-130.0	CARBONDALE	HOUCHIN CREEK	COAL	-	580.0

MAPID: 03302496000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 11W

SECTION: 6

QUARTERS/FOOTAGES: NW SE NE

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.673838

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.995808

DATE COLLECTED:

SURFACE ELEVATION (FT.): 496.0

LOGGED (FT.): 765.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
60.0	CARBONDALE	DANVILLE	COAL	4.0	436.0
20.0	CARBONDALE	JAMESTOWN	COAL	-	476.0
7.0	CARBONDALE	HERRIN	COAL	-	489.0
-42.0	CARBONDALE	SPRINGFIELD	COAL	-	538.0
-240.0	CARBONDALE	COLCHESTER	COAL	-	736.0
-263.0	SPOON	SEELYVILLE	COAL	6.0	759.0

MAPID: 03301028000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 7 QUARTERS/FOOTAGES: NE NE SW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.680809 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.977555 DATE COLLECTED:

SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 771.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
173.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	327.0
63.0	CARBONDALE	DANVILLE	COAL	3.5	437.0
25.0	CARBONDALE	JAMESTOWN	COAL	-	475.0
15.0	CARBONDALE	HERRIN	COAL	-	485.0
-39.0	CARBONDALE	SPRINGFIELD	COAL	3.0	539.0
-130.0	CARBONDALE	HOUCHIN CREEK	COAL	-	630.0
-246.0	CARBONDALE	COLCHESTER	COAL	-	746.0
-266.0	SPOON	SEELYVILLE	COAL	5.0	766.0

MAPID: 03301082000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 8 QUARTERS/FOOTAGES: SE SE SW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.661971 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.972002 DATE COLLECTED:

SURFACE ELEVATION (FT.): 471.0 LOGGED (FT.): 694.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
193.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	278.0
96.0	CARBONDALE	DANVILLE	COAL	3.5	375.0
54.0	CARBONDALE	JAMESTOWN	COAL	4.0	417.0
45.0	CARBONDALE	HERRIN	COAL	2.5	426.0
-5.0	CARBONDALE	SPRINGFIELD	COAL	2.5	476.0
-86.0	CARBONDALE	HOUCHIN CREEK	COAL	-	557.0
-193.0	CARBONDALE	COLCHESTER	COAL	-	664.0
-218.0	SPOON	SEELYVILLE	COAL	5.0	689.0

MAPID: 03304382000C VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 8 QUARTERS/FOOTAGES:

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.66074

GEOLOGIST: UITEMP

CONFIDENTIAL: N

LATITUDE: 38.978444

DATE COLLECTED: 5 / 16 / 1972

SURFACE ELEVATION (FT.): 475.0

LOGGED (FT.): 774.4

LOG TYPE: Drillers Log

SOURCE: MINERAL RESOURCES INC. 1

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0	PLEISTOCENE		UNCONSOLIDATED	12.0	0.0	
463.0	PLEISTOCENE		GLACIAL DRIFT	42.0	12.0	
421.0			SILTY SHALE	10.6	54.0	
410.4			FOSSILIFEROUS SHALE	1.4	64.6	
409.0			SOFT SHALE	5.8	66.0	
403.2			SANDSTONE	4.2	71.8	
399.0			SANDY SHALE	32.4	76.0	
366.6	BOND	BRISTOL HILL	COAL	0.8	108.4	
365.8	BOND		UNDERCLAY	2.4	109.2	
363.4	BOND		CALCAREOUS SHALE	3.4	111.6	
360.0	BOND		SANDSTONE	14.6	115.0	
345.4	BOND		SANDSTONE/SHALE	7.4	129.6	
338.0	BOND		SHALE	33.4	137.0	
304.6	BOND		SHALE	11.0	170.4	
293.6	BOND		SANDSTONE	1.2	181.4	
292.4	BOND		SHALE	14.4	182.6	
278.0	BOND		BLACK SHALE	4.4	197.0	
273.6	BOND	FLANNIGAN	COAL	0.4	201.4	
273.2	BOND		SILTY SHALE	5.2	201.8	
268.0	BOND		GREEN SHALE	3.0	207.0	
265.0	BOND		GREEN SHALE	4.6	210.0	
260.4	BOND		CALCAREOUS SHALE	2.0	214.6	
258.4	BOND		SANDY SHALE	38.4	216.6	
220.0	BOND		SHALY SANDSTONE	32.1	255.0	
187.9	BOND	CARTHAGE	LIMESTONE	4.9	287.1	GREEN
183.0	MODESTO		SILTY SHALE	1.1	292.0	
181.9	MODESTO		SHALE	6.9	293.1	
175.0	MODESTO		CALCAREOUS SHALE	8.6	300.0	
166.4	MODESTO		GREEN SHALE	12.4	308.6	
154.0	MODESTO		SILTY SHALE	13.5	321.0	
140.5	MODESTO	CHAPEL	COAL	0.8	334.5	
139.7	MODESTO		SILTY SHALE	15.1	335.3	
124.6	MODESTO		SANDY SHALE	16.0	350.4	
108.6	MODESTO		SANDSTONE	10.6	366.4	
98.0	MODESTO		SANDY SHALE	28.6	377.0	
69.4	CARBONDALE	DANVILLE	COAL	1.3	405.6	
68.1	CARBONDALE		UNDERCLAY	2.1	406.9	
66.0	CARBONDALE		SANDY SHALE	4.6	409.0	
61.4	CARBONDALE		SANDSTONE	4.7	413.6	

56.7	CARBONDALE		SILTY SHALE	22.7	418.3	
34.0	CARBONDALE		GREEN SHALE	7.1	441.0	
26.9	CARBONDALE		DARK SHALE	0.5	448.1	
26.4	CARBONDALE		FOSSILIFEROUS SHALE	1.1	448.6	
25.3	CARBONDALE		SHALE W/ COAL STREAKS	0.2	449.7	
25.1	CARBONDALE	JAMESTOWN	COAL	3.6	449.9	
21.5	CARBONDALE		SILTY SHALE	1.7	453.5	
19.8	CARBONDALE		DARK SHALE	5.4	455.2	
14.4	CARBONDALE	HERRIN	SHALY COAL	0.5	460.6	BLACK
13.9	CARBONDALE		NO RECORD	3.0	461.1	
10.9	CARBONDALE		UNDERCLAY	3.7	464.1	NOD
7.2	CARBONDALE		SANDY LIMESTONE	0.4	467.8	BLACK
6.8	CARBONDALE		SANDSTONE	1.6	468.2	BLACK
5.2	CARBONDALE		SANDSTONE	16.2	469.8	GREEN
-11.0	CARBONDALE		SILTY SHALE	17.0	486.0	
-28.0	CARBONDALE	BRIAR HILL	COAL	1.2	503.0	
-29.2	CARBONDALE		SILTY SHALE	0.2	504.2	
-29.4	CARBONDALE		SHALY SANDSTONE	2.7	504.4	
-32.1	CARBONDALE		SANDY SHALE	5.2	507.1	
-37.3	CARBONDALE		SHALY SANDSTONE	8.6	512.3	
-45.9	CARBONDALE		SILTY SHALE	4.2	520.9	
-50.1	CARBONDALE	SPRINGFIELD	COAL	3.3	525.1	
-53.4	CARBONDALE		UNDERCLAY	0.6	528.4	
-54.0	CARBONDALE		SILTY SHALE	110.4	529.0	
-164.4	CARBONDALE		BLACK SHALE	2.7	639.4	
-167.1	CARBONDALE	SURVANT	COAL	1.3	642.1	
-168.4	CARBONDALE		SILTY SHALE	19.6	643.4	
-188.0	CARBONDALE		SHALE	11.6	663.0	
-199.6			SANDSTONE	37.6	674.6	
-237.2			SANDSTONE	28.3	712.2	
-265.5			SANDY SHALE	0.2	740.5	
-265.7			SANDSTONE	32.5	740.7	

---



MAPID: 03329824000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 8 QUARTERS/FOOTAGES: NE NW NE  
 QUADRANGLE: FLAT ROCK LONGITUDE: -87.657116 GEOLOGIST: C TREWORGY  
 CONFIDENTIAL: N LATITUDE: 38.984903 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 684.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
191.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	279.0
90.0	CARBONDALE	DANVILLE	COAL	-	380.0
50.0	CARBONDALE	JAMESTOWN	COAL	-	420.0
38.0	CARBONDALE	HERRIN	COAL	-	432.0
-12.0	CARBONDALE	SPRINGFIELD	COAL	-	482.0
-100.0	CARBONDALE	HOUCHIN CREEK	COAL	-	570.0
-214.0	CARBONDALE	COLCHESTER	COAL	-	684.0

MAPID: 03301108000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 9 QUARTERS/FOOTAGES: SW NW NW  
 QUADRANGLE: FLAT ROCK LONGITUDE: -87.649953 GEOLOGIST: C TREWORGY  
 CONFIDENTIAL: N LATITUDE: 38.983088 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 474.0 LOGGED (FT.): 679.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
185.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	289.0
86.0	CARBONDALE	DANVILLE	COAL	4.0	388.0
42.0	CARBONDALE	JAMESTOWN	COAL	4.0	432.0
32.0	CARBONDALE	HERRIN	COAL	-	442.0
-21.0	CARBONDALE	SPRINGFIELD	COAL	3.5	495.0
-122.0	CARBONDALE	HOUCHIN CREEK	COAL	-	596.0
-205.0	CARBONDALE	COLCHESTER	COAL	-	679.0

MAPID: 03308177000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 11W

SECTION: 10

QUARTERS/FOOTAGES: NW NE SW

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.626275

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.977576

DATE COLLECTED:

SURFACE ELEVATION (FT.): 465.0

LOGGED (FT.): 580.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
202.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	263.0
105.0	CARBONDALE	DANVILLE	COAL	-	360.0
59.0	CARBONDALE	JAMESTOWN	COAL	-	406.0
50.0	CARBONDALE	HERRIN	COAL	-	415.0
-7.0	CARBONDALE	SPRINGFIELD	COAL	-	472.0
-115.0	CARBONDALE	HOUCHIN CREEK	COAL	-	580.0

MAPID: 03390104000C VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD

TWP/RNG: 6N 11W

SECTION: 10

QUARTERS/FOOTAGES: 600' N line, 300' E line of NW SE

QUADRANGLE: HEATHSVILLE

LONGITUDE: -87.619314

GEOLOGIST: LAWSON

CONFIDENTIAL: N

LATITUDE: 38.976871

DATE COLLECTED: 5 / 25 / 1967

SURFACE ELEVATION (FT.): 483.0

LOGGED (FT.): 598.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 5

WELL TYPE: Coal Test

COMMENT: CRAWFORD CO.BOX 33

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
483.0	PLEISTOCENE		UNCONSOLIDATED	21.0	0.0
462.0			ROCK	38.0	21.0
424.0			COAL	2.7	59.0
421.3			ROCK	94.3	61.7
327.0			COAL	1.0	156.0
326.0			ROCK	66.0	157.0
260.0			COAL	1.7	223.0
258.3			ROCK	110.3	224.7
148.0	CARBONDALE	DANVILLE	COAL	1.0	335.0
147.0	CARBONDALE		ROCK	37.0	336.0
110.0	CARBONDALE	JAMESTOWN	COAL	4.0	373.0
106.0	CARBONDALE		ROCK	6.0	377.0
100.0	CARBONDALE	HERRIN	COAL	1.0	383.0
99.0	CARBONDALE		ROCK	101.0	384.0
-2.0	CARBONDALE		COAL	1.0	485.0
-3.0	CARBONDALE		ROCK	60.0	486.0
-63.0	CARBONDALE		COAL	1.0	546.0
-64.0	CARBONDALE		ROCK	38.0	547.0
-102.0	CARBONDALE		COAL	1.8	585.0
-103.8	CARBONDALE		ROCK	11.2	586.8

MAPID: 03390105000C    VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD    TWP/RNG: 6N 11W    SECTION: 10    QUARTERS/FOOTAGES: 300' S line, 250' W line of SW NW

QUADRANGLE: FLAT ROCK    LONGITUDE: -87.631133

GEOLOGIST: LAWSON

CONFIDENTIAL: N    LATITUDE: 38.979308

DATE COLLECTED: 5 / 21 / 1967

SURFACE ELEVATION (FT.): 462.0

LOGGED (FT.): 598.0

LOG TYPE: Drillers Log

SOURCE: AYRSHIRE    6

WELL TYPE: Coal Test

COMMENT: CRAWFORD CO.BOX 33

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
462.0	PLEISTOCENE		UNCONSOLIDATED	16.0	0.0
446.0			ROCK	49.0	16.0
397.0			COAL	2.7	65.0
394.3			ROCK	227.3	67.7
167.0	MODESTO		COAL	2.5	295.0
164.5	MODESTO		ROCK	49.5	297.5
115.0	CARBONDALE	DANVILLE	COAL	3.6	347.0
111.4	CARBONDALE		ROCK	43.4	350.6
68.0	CARBONDALE	JAMESTOWN	COAL	3.2	394.0
64.8	CARBONDALE		ROCK	5.8	397.2
59.0	CARBONDALE	HERRIN	COAL	3.0	403.0
56.0	CARBONDALE		ROCK	50.0	406.0
6.0	CARBONDALE	SPRINGFIELD	COAL	3.8	456.0
2.2	CARBONDALE		ROCK	105.2	459.8
-103.0	CARBONDALE	HOUCHIN CREEK	COAL	1.8	565.0
-104.8	CARBONDALE		ROCK	31.2	566.8

---

MAPID: 03390106000C    VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD    TWP/RNG: 6N 11W    SECTION: 11    QUARTERS/FOOTAGES: 180' S line, 200' E line of NW NE

QUADRANGLE: HEATHSVILLE    LONGITUDE: -87.599604    GEOLOGIST: LAWSON

CONFIDENTIAL: N    LATITUDE: 38.982926    DATE COLLECTED:

SURFACE ELEVATION (FT.): 517.0    LOGGED (FT.): 318.0    LOG TYPE: Drillers Log

SOURCE: AYRSHIRE    7    WELL TYPE: Coal Test

COMMENT: CRAWFORD CO.BOX 33

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
517.0	PLEISTOCENE		UNCONSOLIDATED	20.0	0.0
497.0			ROCK	68.0	20.0
429.0			COAL	1.0	88.0
428.0			ROCK	92.0	89.0
336.0			COAL	1.2	181.0
334.8			ROCK	1.8	182.2
333.0			COAL	1.0	184.0
332.0			ROCK	82.0	185.0
250.0			COAL	1.5	267.0
248.5			ROCK	39.5	268.5
209.0			COAL	1.0	308.0
208.0			ROCK	9.0	309.0

MAPID: 03390108000C VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 11 QUARTERS/FOOTAGES: 3635' S line, 2040' W line

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.606172 GEOLOGIST: LAWSON

CONFIDENTIAL: N LATITUDE: 38.98128 DATE COLLECTED: 10 / 10 / 1967

SURFACE ELEVATION (FT.): 493.0 LOGGED (FT.): 600.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 9 WELL TYPE: Coal Test

COMMENT: CRAWFORD CO.BOX 33 CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
493.0	PLEISTOCENE		UNCONSOLIDATED	26.0	0.0
467.0			ROCK	2.0	26.0
465.0			COAL	1.3	28.0
463.7			ROCK	76.7	29.3
387.0			COAL	1.5	106.0
385.5			ROCK	91.5	107.5
294.0	MODESTO		COAL	1.0	199.0
293.0	MODESTO		ROCK	170.0	200.0
123.0	CARBONDALE	DANVILLE	COAL	2.0	370.0
121.0	CARBONDALE		ROCK	44.0	372.0
77.0	CARBONDALE	JAMESTOWN	COAL	3.3	416.0
73.7	CARBONDALE		ROCK	5.8	419.3
68.0	CARBONDALE	HERRIN	COAL	0.5	425.0
67.5	CARBONDALE		ROCK	101.5	425.5
-34.0	CARBONDALE		COAL	3.1	527.0
-37.1	CARBONDALE		ROCK	0.3	530.1
-37.4	CARBONDALE		COAL	0.2	530.4
-37.6	CARBONDALE		ROCK	69.4	530.6

MAPID: 03302862000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 13 QUARTERS/FOOTAGES: SW NE SE

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.578902 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.960803 DATE COLLECTED:

SURFACE ELEVATION (FT.): 490.0 LOGGED (FT.): 588.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
131.0	CARBONDALE	DANVILLE	COAL	3.5	359.0
85.0	CARBONDALE	JAMESTOWN	COAL	3.0	405.0
6.0	CARBONDALE	SPRINGFIELD	COAL	-	484.0
-98.0	CARBONDALE	HOUCHIN CREEK	COAL	-	588.0

MAPID: 03300283000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 16 QUARTERS/FOOTAGES: NE NE NW  
 QUADRANGLE: FLAT ROCK LONGITUDE: -87.642852 GEOLOGIST: C TREWORY  
 CONFIDENTIAL: N LATITUDE: 38.970141 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 483.0 LOGGED (FT.): 675.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
83.0	CARBONDALE	DANVILLE	COAL	4.0	400.0
36.0	CARBONDALE	JAMESTOWN	COAL	-	447.0
24.0	CARBONDALE	HERRIN	COAL	2.5	459.0
-29.0	CARBONDALE	SPRINGFIELD	COAL	3.5	512.0
-136.0	CARBONDALE	HOUCHIN CREEK	COAL	-	619.0
-192.0	CARBONDALE	COLCHESTER	COAL	-	675.0

MAPID: 03300284000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 16 QUARTERS/FOOTAGES: 1770' N line, 330' W line of NE  
 QUADRANGLE: FLAT ROCK LONGITUDE: -87.640508 GEOLOGIST: C TREWORY  
 CONFIDENTIAL: N LATITUDE: 38.96618 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 512.0 LOGGED (FT.): 658.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
74.0	CARBONDALE	DANVILLE	COAL	4.0	438.0
30.0	CARBONDALE	JAMESTOWN	COAL	-	482.0
19.0	CARBONDALE	HERRIN	COAL	2.5	493.0
-39.0	CARBONDALE	SPRINGFIELD	COAL	4.0	551.0
-146.0	CARBONDALE	HOUCHIN CREEK	COAL	-	658.0

MAPID: 03301001000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 18 QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: FLAT ROCK LONGITUDE: -87.671513 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.970161 DATE COLLECTED:

SURFACE ELEVATION (FT.): 476.0 LOGGED (FT.): 580.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
175.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	301.0
86.0	CARBONDALE	DANVILLE	COAL	-	390.0
43.0	CARBONDALE	JAMESTOWN	COAL	-	433.0
35.0	CARBONDALE	HERRIN	COAL	-	441.0
-15.0	CARBONDALE	SPRINGFIELD	COAL	-	491.0
-104.0	CARBONDALE	HOUCHIN CREEK	COAL	-	580.0

MAPID: 03300638000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 19 QUARTERS/FOOTAGES: NE NE SW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.680848 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.947909 DATE COLLECTED:

SURFACE ELEVATION (FT.): 525.0 LOGGED (FT.): 786.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
176.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	349.0
72.0	CARBONDALE	DANVILLE	COAL	-	453.0
30.0	CARBONDALE	JAMESTOWN	COAL	-	495.0
24.0	CARBONDALE	HERRIN	COAL	-	501.0
-35.0	CARBONDALE	SPRINGFIELD	COAL	-	560.0
-126.0	CARBONDALE	HOUCHIN CREEK	COAL	-	651.0
-238.0	CARBONDALE	COLCHESTER	COAL	-	763.0
-261.0	SPOON	SEELYVILLE	COAL	-	786.0

MAPID: 03308865000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 21 QUARTERS/FOOTAGES: 660' N line, 660' E line of SE SW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.644091 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.943217 DATE COLLECTED:

SURFACE ELEVATION (FT.): 522.0 LOGGED (FT.): 642.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
198.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	324.0
100.0	CARBONDALE	DANVILLE	COAL	-	422.0
53.0	CARBONDALE	JAMESTOWN	COAL	-	469.0
46.0	CARBONDALE	HERRIN	COAL	-	476.0
-22.0	CARBONDALE	SPRINGFIELD	COAL	-	544.0
-120.0	CARBONDALE	HOUCHIN CREEK	COAL	-	642.0

MAPID: 03308871000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 21 QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: FLAT ROCK LONGITUDE: -87.640545 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.949674 DATE COLLECTED:

SURFACE ELEVATION (FT.): 526.0 LOGGED (FT.): 787.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
171.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	355.0
70.0	CARBONDALE	DANVILLE	COAL	-	456.0
20.0	CARBONDALE	JAMESTOWN	COAL	-	506.0
14.0	CARBONDALE	HERRIN	COAL	-	512.0
-60.0	CARBONDALE	SPRINGFIELD	COAL	-	586.0
-169.0	CARBONDALE	HOUCHIN CREEK	COAL	-	695.0
-236.0	CARBONDALE	COLCHESTER	COAL	-	762.0
-261.0	SPOON	SEELYVILLE	COAL	-	787.0



MAPID: 03300881000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 22 QUARTERS/FOOTAGES: SW NE NW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.626476 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.953245 DATE COLLECTED:

SURFACE ELEVATION (FT.): 476.0 LOGGED (FT.): 693.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
207.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	269.0
115.0	CARBONDALE	DANVILLE	COAL	2.5	361.0
63.0	CARBONDALE	JAMESTOWN	COAL	-	413.0
-127.0	CARBONDALE	HOUCHIN CREEK	COAL	-	603.0
-191.0	CARBONDALE	COLCHESTER	COAL	-	667.0
-217.0	SPOON	SEELYVILLE	COAL	-	693.0

MAPID: 03302722000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 23 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.602863 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.947596 DATE COLLECTED:

SURFACE ELEVATION (FT.): 558.0 LOGGED (FT.): 804.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
216.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	342.0
132.0	CARBONDALE	DANVILLE	COAL	-	426.0
78.0	CARBONDALE	JAMESTOWN	COAL	-	480.0
-3.0	CARBONDALE	SPRINGFIELD	COAL	-	561.0
-103.0	CARBONDALE	HOUCHIN CREEK	COAL	-	661.0
-204.0	CARBONDALE	COLCHESTER	COAL	-	762.0
-246.0	SPOON	SEELYVILLE	COAL	-	804.0

MAPID: 03302874000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 24 QUARTERS/FOOTAGES: NE NE SW

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.585987 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.947663 DATE COLLECTED:

SURFACE ELEVATION (FT.): 524.0 LOGGED (FT.): 769.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
130.0	CARBONDALE	DANVILLE	COAL	2.5	394.0
78.0	CARBONDALE	JAMESTOWN	COAL	3.0	446.0
70.0	CARBONDALE	HERRIN	COAL	-	454.0
12.0	CARBONDALE	SPRINGFIELD	COAL	2.5	512.0
-86.0	CARBONDALE	HOUCHIN CREEK	COAL	-	610.0
-196.0	CARBONDALE	COLCHESTER	COAL	-	720.0
-239.0	SPOON	SEELYVILLE	COAL	6.0	763.0

MAPID: 03302707000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 25 QUARTERS/FOOTAGES: NW NW SW

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.593107 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.93246 DATE COLLECTED:

SURFACE ELEVATION (FT.): 543.0 LOGGED (FT.): 807.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
107.0	CARBONDALE	DANVILLE	COAL	3.0	436.0
57.0	CARBONDALE	JAMESTOWN	COAL	3.5	486.0
50.0	CARBONDALE	HERRIN	COAL	2.0	493.0
-6.0	CARBONDALE	SPRINGFIELD	COAL	3.0	549.0
-97.0	CARBONDALE	HOUCHIN CREEK	COAL	-	640.0
-228.0	CARBONDALE	COLCHESTER	COAL	-	771.0
-257.0	SPOON	SEELYVILLE	COAL	7.0	800.0

MAPID: 03302726000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 6N 11W    SECTION: 25    QUARTERS/FOOTAGES: 75' N line, 75' E line of SE

QUADRANGLE: HEATHSVILLE    LONGITUDE: -87.575585    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 38.93327    DATE COLLECTED:

SURFACE ELEVATION (FT.): 479.0    LOGGED (FT.): 666.0    LOG TYPE: Nuclear Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
123.0	CARBONDALE	DANVILLE	COAL	2.5	356.0
86.0	CARBONDALE	JAMESTOWN	COAL	3.5	393.0
78.0	CARBONDALE	HERRIN	COAL	2.0	401.0
27.0	CARBONDALE	SPRINGFIELD	COAL	3.0	452.0
-58.0	CARBONDALE	HOUCHIN CREEK	COAL	-	537.0
-187.0	CARBONDALE	COLCHESTER	COAL	-	666.0

MAPID: 03300089000C VERSION: 1

PROJECT: NCRDS88

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 27 QUARTERS/FOOTAGES: 330' S line, 2475' E line of SE

QUADRANGLE: HEATHSVILLE

LONGITUDE: -87.622004

GEOLOGIST: R. SMITH

CONFIDENTIAL: N

LATITUDE: 38.927247

DATE COLLECTED:

SURFACE ELEVATION (FT.):

LOGGED (FT.): 179.8

LOG TYPE: Drillers Log

SOURCE: E.D. CRAVENS (BURKETT)

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	13.0	0.0	
-	MATTOON		SANDSTONE	42.0	13.0	
-	MATTOON		LIMESTONE	3.5	55.0	
-	MATTOON		BLUE SHALE	11.5	58.5	
-	MATTOON		BLACK SHALE	3.0	70.0	SLATE
-	MATTOON	COHN	COAL	1.0	73.0	UNCERTAIN CORRELATION
-	MATTOON		SHALE	4.0	74.0	
-	MATTOON		LIMESTONE	3.0	78.0	
-	MATTOON		SHALE	12.0	81.0	
-	BOND	MILLERSVILLE	LIMESTONE	3.5	93.0	UNCERTAIN CORRELATION
-	BOND		SHALE	1.5	96.5	
-	BOND	BRISTOL HILL	COAL	1.3	98.0	
-	BOND		SHALE	6.7	99.3	
-	BOND		LIMESTONE	7.0	106.0	
-	BOND		LIMESTONE W/ SHALE	13.0	113.0	
-	BOND		DARK SHALE	6.0	126.0	
-	BOND		SHALE	9.0	132.0	
-	BOND		LIMESTONE W/ SHALE	1.0	141.0	
-	BOND		LIMESTONE	1.0	142.0	
-	BOND	WITT	COAL	1.0	143.0	UNCERTAIN CORRELATION
-	BOND		GRAY SHALE & LIMESTONE	24.0	144.0	
-	BOND		SHALE	6.7	168.0	SLATE
-	BOND	FLANNIGAN	COAL	4.0	174.7	
-	BOND		UNDERCLAY	1.0	178.7	

MAPID: 03300161000C    VERSION: 1

PROJECT: NCRDS88

COUNTY: CRAWFORD    TWP/RNG: 6N 11W    SECTION: 27    QUARTERS/FOOTAGES: SE NE SW

QUADRANGLE: HEATHSVILLE

LONGITUDE: -87.623956

GEOLOGIST: R. SMITH

CONFIDENTIAL: N

LATITUDE: 38.930993

DATE COLLECTED: 7 / 31 / 1967

SURFACE ELEVATION (FT.):

LOGGED (FT.): 183.2

LOG TYPE: Drillers Log

SOURCE: CRAWFORD CO. COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	14.0	0.0	
-	MATTOON		SANDSTONE	42.0	14.0	
-	MATTOON		BLUE SHALE	3.5	56.0	
-	MATTOON		LIMESTONE	3.8	59.5	
-	MATTOON		SHALE	1.8	63.3	
-	MATTOON		LIMESTONE	4.0	65.0	
-	MATTOON		BLUE SHALE	3.0	69.0	
-	MATTOON		LIMESTONE	2.8	72.0	
-	MATTOON	COHN	COAL	1.0	74.8	UNCERTAIN CORRELATION
-	MATTOON		LIMESTONE W/ SHALE	7.2	75.8	
-	MATTOON		LIMESTONE	3.0	83.0	
-	MATTOON		SHALE	6.0	86.0	SLATE
-	MATTOON		SHALE	7.0	92.0	
-	BOND	MILLERSVILLE	LIMESTONE	2.5	99.0	UNCERTAIN CORRELATION
-	BOND	BRISTOL HILL	COAL	1.0	101.5	
-	BOND		SHALE	3.5	102.5	SLATE
-	BOND		LIMESTONE	20.0	106.0	
-	BOND		DARK SHALE	9.0	126.0	
-	BOND		SHALE	10.0	135.0	SLATE
-	BOND		LIMESTONE	1.0	145.0	
-	BOND		SHALE	0.7	146.0	SLATE
-	BOND	WITT	COAL	1.2	146.7	UNCERTAIN CORRELATION
-	BOND		LIMESTONE W/ SHALE	17.2	147.8	
-	BOND		LIMESTONE	3.3	165.0	
-	BOND		SHALE	0.6	168.3	SLATE
-	BOND		SANDY SHALE	8.7	168.8	
-	BOND		CALCAREOUS SHALE	0.7	177.5	SLATE AND LIME
-	BOND	FLANNIGAN	COAL	4.0	178.2	
-	BOND		UNDERCLAY	1.0	182.2	

MAPID: 03300161000C    VERSION: 2

PROJECT: NCRDS87

COUNTY: CRAWFORD    TWP/RNG: 6N 11W    SECTION: 27    QUARTERS/FOOTAGES: SE NE SW

QUADRANGLE: HEATHSVILLE    LONGITUDE: -87.623956    GEOLOGIST: WEIBEL

CONFIDENTIAL: N    LATITUDE: 38.930993    DATE COLLECTED:

SURFACE ELEVATION (FT.): 562.0    LOGGED (FT.): 183.2    LOG TYPE: Drillers Log

SOURCE: CRAWFORD CO. COAL CO.    WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
562.0			UNCONSOLIDATED	14.0	0.0	
548.0	MATTOON		SANDSTONE	42.0	14.0	
506.0	MATTOON		SHALE	3.5	56.0	
502.5	MATTOON		LIMESTONE	3.8	59.5	
498.7	MATTOON		SHALE	1.8	63.3	
497.0	MATTOON		LIMESTONE	4.0	65.0	
493.0	MATTOON		SHALE	3.0	69.0	
490.0	MATTOON		LIMESTONE	2.9	72.0	
487.1	MATTOON		COAL	1.0	74.9	
486.1	MATTOON		SHALE	7.1	75.9	
479.0	MATTOON		LIMESTONE	3.0	83.0	
476.0	MATTOON		SHALE	13.0	86.0	
463.0	BOND	MILLERSVILLE	LIMESTONE	2.5	99.0	UNCERTAIN CORRELATION
460.5	BOND	BRISTOL HILL	COAL	1.0	101.5	UNCERTAIN CORRELATION
459.5	BOND		SHALE	3.5	102.5	
456.0	BOND		LIMESTONE	20.0	106.0	
436.0	BOND		DARK SHALE	9.0	126.0	
427.0	BOND		SHALE	10.0	135.0	
417.0	BOND		LIMESTONE	1.0	145.0	
416.0	BOND		SHALE	0.7	146.0	
415.3	BOND	WITT	COAL	1.2	146.7	UNCERTAIN CORRELATION
414.2	BOND		SHALE	17.2	147.8	
397.0	BOND		LIMESTONE	3.3	165.0	
393.7	BOND		SHALE	0.6	168.3	
393.1	BOND		SHALE & SANDSTONE	8.6	168.9	
384.5	BOND		SHALE	0.7	177.5	
383.8	BOND	FLAT CREEK	COAL	4.0	178.2	UNCERTAIN CORRELATION
379.8	BOND		UNDERCLAY	1.0	182.2	

MAPID: 03300160000C VERSION: 1

PROJECT: NCRDS88

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 29 QUARTERS/FOOTAGES: 660' S line, 660' E line of SE SE SE

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.653666

GEOLOGIST: R. SMITH

CONFIDENTIAL: N

LATITUDE: 38.928235

DATE COLLECTED: 7 / 31 / 1967

SURFACE ELEVATION (FT.):

LOGGED (FT.): 164.0

LOG TYPE: Drillers Log

SOURCE: CRAWFORD CO. COAL CO.

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	12.0	0.0	
-	MATTOON		SANDSTONE	69.2	12.0	
-	MATTOON	COHN	COAL	1.8	81.2	UNCERTAIN CORRELATION
-	MATTOON		SHALE	0.8	83.0	
-	MATTOON		LIMESTONE	5.3	83.8	
-	MATTOON		BLUE SHALE	15.9	89.0	
-	BOND	MILLERSVILLE	LIMESTONE	2.5	104.9	UNCERTAIN CORRELATION
-	BOND		SHALE	8.6	107.4	SLATE: BRISTOL HILL COAL HORIZON
-	BOND		LIMESTONE	1.3	116.0	
-	BOND		GRAY SHALE	0.5	117.3	
-	BOND		LIMESTONE	0.6	117.8	
-	BOND		LIMESTONE W/ SHALE	3.6	118.4	
-	BOND		SANDSTONE/SHALE	4.0	122.0	
-	BOND		LIMESTONE	1.0	126.0	
-	BOND		SANDY SHALE	5.0	127.0	
-	BOND		SHALE	17.0	132.0	SLATE
-	BOND		SHALE	1.5	149.0	
-	BOND		LIMESTONE	1.5	150.5	
-	BOND	WITT	COAL	1.3	152.0	UNCERTAIN CORRELATION
-	BOND		SHALE	3.3	153.3	
-	BOND		LIMESTONE	5.3	156.7	
-	BOND		GRAY SHALE	2.0	162.0	

MAPID: 03309051000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 31 QUARTERS/FOOTAGES: 990' N line, 330' W line of NE SW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.683134 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.916361 DATE COLLECTED:

SURFACE ELEVATION (FT.): 539.0 LOGGED (FT.): 724.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
129.0	CARBONDALE	DANVILLE	COAL	-	410.0
87.0	CARBONDALE	JAMESTOWN	COAL	-	452.0
25.0	CARBONDALE	SPRINGFIELD	COAL	-	514.0
-53.0	CARBONDALE	HOUCHIN CREEK	COAL	-	592.0
-185.0	CARBONDALE	COLCHESTER	COAL	-	724.0

MAPID: 03330262000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 11W SECTION: 34 QUARTERS/FOOTAGES: 430' S line, 330' E line of SW

QUADRANGLE: HEATHSVILLE LONGITUDE: -87.624101 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.912376 DATE COLLECTED:

SURFACE ELEVATION (FT.): 511.0 LOGGED (FT.): 716.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
205.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	306.0
109.0	CARBONDALE	DANVILLE	COAL	-	402.0
54.0	CARBONDALE	JAMESTOWN	COAL	-	457.0
48.0	CARBONDALE	HERRIN	COAL	-	463.0
-16.0	CARBONDALE	SPRINGFIELD	COAL	-	527.0
-104.0	CARBONDALE	HOUCHIN CREEK	COAL	-	615.0
-205.0	CARBONDALE	COLCHESTER	COAL	-	716.0



MAPID: 03302498000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 6N 11W    SECTION: 36    QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: HEATHSVILLE    LONGITUDE: -87.576517    GEOLOGIST: C TREWORY

CONFIDENTIAL: N    LATITUDE: 38.924858    DATE COLLECTED:

SURFACE ELEVATION (FT.): 476.0    LOGGED (FT.): 693.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
239.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	237.0
121.0	CARBONDALE	DANVILLE	COAL	-	355.0
68.0	CARBONDALE	JAMESTOWN	COAL	3.5	408.0
57.0	CARBONDALE	HERRIN	COAL	-	419.0
-2.0	CARBONDALE	SPRINGFIELD	COAL	3.5	478.0
-90.0	CARBONDALE	HOUCHIN CREEK	COAL	-	566.0
-183.0	CARBONDALE	COLCHESTER	COAL	-	659.0
-211.0	SPOON	SEELYVILLE	COAL	6.0	687.0

MAPID: 03303043000C    VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD    TWP/RNG: 6N 12W    SECTION: 2    QUARTERS/FOOTAGES: 210' S line, 240' E line of NE NW NW

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.719518

GEOLOGIST: UITEMP

CONFIDENTIAL: N

LATITUDE: 38.999312

DATE COLLECTED: 4 / 0 / 1960

SURFACE ELEVATION (FT.): 524.0

LOGGED (FT.): 388.0

LOG TYPE: Drillers Log

SOURCE: FENIX & SCISSON, INC.    6

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
424.0			SANDSTONE	4.0	100.0	GREEN
420.0			GRAY SHALE	6.0	104.0	
414.0			GRAY SHALE	6.0	110.0	
408.0	BOND	LIVINGSTON	LIMESTONE	5.0	116.0	GREEN
403.0	BOND		BLACK SHALE	3.0	121.0	
400.0	BOND	BRISTOL HILL	COAL	1.7	124.0	
398.3	BOND		UNDERCLAY	5.3	125.7	GREEN
393.0	BOND		SANDSTONE	4.0	131.0	GREEN
389.0	BOND		GRAY SHALE	6.0	135.0	
383.0	BOND		GRAY SHALE	9.0	141.0	
374.0	BOND		GRAY SHALE	10.0	150.0	
364.0	BOND		GRAY SHALE	7.0	160.0	
357.0	BOND		BLACK SHALE	1.0	167.0	
356.0	BOND	WITT	COAL	0.1	168.0	
355.9	BOND		UNDERCLAY	1.9	168.1	GRAY
354.0	BOND		UNDERCLAY	2.0	170.0	GRAY
352.0	BOND		SHALY SANDSTONE	8.0	172.0	GRAY
344.0	BOND		SANDSTONE	6.0	180.0	GRAY
338.0	BOND		SANDSTONE	4.0	186.0	GRAY
334.0	BOND		GRAY SHALE	9.0	190.0	
325.0	BOND		BLACK SHALE	0.5	199.0	
324.5	BOND	FLANNIGAN	COAL	2.0	199.5	
322.5	BOND		UNDERCLAY	1.5	201.5	GRAY
321.0			GRAY SHALE	14.0	203.0	
307.0			COAL	1.0	217.0	SHALEY
306.0			GRAY SHALE	2.0	218.0	
304.0			GRAY SHALE	1.5	220.0	
302.5			GRAY SHALE	8.5	221.5	
294.0			SANDSTONE	10.0	230.0	GREEN
284.0			SANDSTONE	2.0	240.0	WHITE
282.0			GRAY SHALE	8.0	242.0	
274.0			SANDSTONE	5.0	250.0	GREEN
269.0			SANDSTONE	5.0	255.0	WHITE
264.0			SANDSTONE	20.0	260.0	GRAY
244.0			SANDSTONE	12.0	280.0	
232.0			SANDSTONE	8.0	292.0	WHITE
224.0			SANDSTONE	1.0	300.0	GRAY
223.0			BLACK SHALE	0.5	301.0	
222.5	MODESTO	WOMAC	COAL	0.5	301.5	

222.0	MODESTO		UNDERCLAY	2.0	302.0	GRAY
220.0	MODESTO		SANDSTONE	6.0	304.0	GRAY
214.0	MODESTO		SANDSTONE	17.0	310.0	GREEN
197.0	MODESTO		SILTSTONE	3.0	327.0	GRAY
194.0	MODESTO		SILTY SHALE	10.0	330.0	
184.0	MODESTO		GRAY SHALE	10.0	340.0	
174.0	MODESTO		GRAY SHALE	10.0	350.0	
164.0	MODESTO		GRAY SHALE	10.0	360.0	
154.0	MODESTO		GREEN SHALE	1.5	370.0	
152.5	MODESTO		LIMESTONE	0.5	371.5	BLACK
152.0	MODESTO		BLACK SHALE	1.0	372.0	
151.0	MODESTO		SANDSTONE	1.0	373.0	WHITE
150.0	MODESTO		GRAY SHALE	6.0	374.0	
144.0	MODESTO		GRAY SHALE	1.0	380.0	
143.0	MODESTO	CHAPEL	COAL	1.5	381.0	#7
141.5	MODESTO		UNDERCLAY	3.5	382.5	GRAY
138.0	MODESTO		GRAY SHALE	2.0	386.0	

---

MAPID: 03303043000C    VERSION: 2

PROJECT: NCRDS88

COUNTY: CRAWFORD    TWP/RNG: 6N 12W    SECTION: 2    QUARTERS/FOOTAGES: 210' S line, 240' E line of NE NW NW

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.719518

GEOLOGIST: R. SMITH

CONFIDENTIAL: N

LATITUDE: 38.999312

DATE COLLECTED: 4 / 0 / 1960

SURFACE ELEVATION (FT.):

LOGGED (FT.): 387.0

LOG TYPE: Other Core Study

SOURCE: FENIX AND SCISSION INC.

WELL TYPE: Structure Test

COMMENT: CORE DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNKNOWN	100.0	0.0	
-	MATTOON		SANDSTONE	4.0	100.0	
-	MATTOON		GRAY SHALE	12.0	104.0	
-	BOND	MILLERSVILLE	LIMESTONE	5.0	116.0	
-	BOND		BLACK SHALE	3.0	121.0	
-	BOND	BRISTOL HILL	COAL	1.7	124.0	
-	BOND		UNDERCLAY	5.3	125.7	
-	BOND		SANDSTONE	4.0	131.0	
-	BOND		GRAY SHALE	32.0	135.0	
-	BOND		BLACK SHALE	1.0	167.0	
-	BOND		COAL	0.1	168.0	
-	BOND		UNDERCLAY	1.9	168.1	
-	BOND		CLAYSTONE	2.0	170.0	
-	BOND		SANDSTONE	18.0	172.0	
-	BOND		GRAY SHALE	9.0	190.0	
-	BOND		BLACK SHALE	0.5	199.0	
-	BOND	FLANNIGAN	COAL	2.0	199.5	
-	BOND		UNDERCLAY	1.5	201.5	
-	BOND		GRAY SHALE	14.0	203.0	
-	BOND		COAL	1.0	217.0	
-	BOND		GRAY SHALE	12.0	218.0	
-	BOND		SANDSTONE	12.0	230.0	
-	BOND		GRAY SHALE	8.0	242.0	
-	BOND		SANDSTONE	51.0	250.0	
-	MODESTO		BLACK SHALE	0.5	301.0	
-	MODESTO	NEW HAVEN	COAL	0.5	301.5	
-	MODESTO		UNDERCLAY	2.0	302.0	
-	MODESTO		SANDSTONE	23.0	304.0	
-	MODESTO		SILTSTONE	3.0	327.0	
-	MODESTO		SHALE	41.5	330.0	
-	MODESTO		LIMESTONE	0.5	371.5	
-	MODESTO		BLACK SHALE	1.0	372.0	
-	MODESTO		SANDSTONE	1.0	373.0	
-	MODESTO		DARK SHALE & BLACK SHALE	6.0	374.0	
-	MODESTO	CHAPEL	COAL	1.5	380.0	MAY BE #7, BUT SEEMS TO SHALLOW
-	MODESTO		UNDERCLAY	3.5	381.5	
-	MODESTO		GRAY SHALE	2.0	385.0	



MAPID: 03303044000C    VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD    TWP/RNG: 6N 12W    SECTION: 2    QUARTERS/FOOTAGES: 120' N line, 320' E line of NW SW SE

QUADRANGLE: FLAT ROCK    LONGITUDE: -87.712166

GEOLOGIST: UITEMP

CONFIDENTIAL: N    LATITUDE: 38.98863

DATE COLLECTED: 3 / 0 / 1960

SURFACE ELEVATION (FT.): 541.0    LOGGED (FT.): 450.0

LOG TYPE: Drillers Log

SOURCE: FENIX & SCISSION, INC.    4

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
441.0	MATTOON		CLAY	2.5	100.0	GRAY
438.5	MATTOON		SANDSTONE	4.5	102.5	WHITE
434.0	MATTOON		GRAY SHALE	1.0	107.0	
433.0	MATTOON		SANDSTONE	2.0	108.0	WHITE
431.0	MATTOON		GRAY SHALE	15.0	110.0	
416.0	MATTOON		GRAY SHALE	10.0	125.0	
406.0	BOND	LIVINGSTON	LIMESTONE	2.0	135.0	GRAY
404.0	BOND		BLACK SHALE	1.0	137.0	
403.0	BOND	BRISTOL HILL	COAL	0.2	138.0	SHALEY
402.8	BOND		UNDERCLAY	2.3	138.2	GRAY
400.5	BOND		SANDSTONE	19.5	140.5	WHITE
381.0	BOND		GRAY SHALE	6.0	160.0	
375.0	BOND		GRAY SHALE	1.0	166.0	
374.0	BOND	WITT	COAL	1.0	167.0	
373.0	BOND		UNDERCLAY	1.0	168.0	GRAY
372.0	BOND		GRAY SHALE	1.0	169.0	
371.0	BOND		SANDSTONE	4.0	170.0	WHITE
367.0	BOND		GRAY SHALE	2.0	174.0	
365.0	BOND		GRAY SHALE	4.0	176.0	
361.0	BOND		SANDSTONE	6.0	180.0	WHITE
355.0	BOND		GRAY SHALE	1.5	186.0	
353.5	BOND	FLANNIGAN	COAL	1.0	187.5	
352.5			GRAY SHALE	1.5	188.5	
351.0			GRAY SHALE	20.0	190.0	
331.0			SANDSTONE	5.5	210.0	GREEN
325.5			SANDSTONE	6.5	215.5	WHITE
319.0			SANDSTONE	8.0	222.0	GREEN
311.0			SANDSTONE	10.0	230.0	GREEN
301.0			SANDSTONE	23.0	240.0	WHITE
278.0			GRAY SHALE	2.0	263.0	
276.0			SANDSTONE	30.0	265.0	WHITE
246.0			SILTSTONE	5.0	295.0	GRAY
241.0			GRAY SHALE	10.0	300.0	
231.0			GRAY SHALE	5.0	310.0	
226.0			GRAY SHALE	3.0	315.0	
223.0			GRAY SHALE	20.0	318.0	
203.0			LIMESTONE	1.0	338.0	GRAY
202.0			GRAY SHALE	8.0	339.0	
194.0			BLACK SHALE	1.2	347.0	

192.8	MODESTO	CHAPEL	COAL	0.5	348.2	#7
192.3	MODESTO		UNDERCLAY	1.3	348.7	GRAY
191.0	MODESTO		UNDERCLAY	1.0	350.0	GRAY
190.0	MODESTO		GRAY SHALE	7.0	351.0	
183.0	MODESTO	WEST FRANKLIN	LIMESTONE & DOLOMITE	5.0	358.0	
178.0			GRAY SHALE	7.0	363.0	
171.0			GRAY SHALE	6.0	370.0	
165.0			SANDSTONE	4.0	376.0	WHITE
161.0			SANDSTONE	5.0	380.0	WHITE
156.0			SANDSTONE	5.0	385.0	WHITE
151.0			GRAY SHALE	5.0	390.0	
146.0			GRAY SHALE	5.0	395.0	
141.0			GRAY SHALE	3.0	400.0	
138.0			SANDSTONE	7.0	403.0	WHITE
131.0			SANDSTONE	30.0	410.0	GRAY
101.0			SANDSTONE	10.0	440.0	GRAY

---

MAPID: 03303044000C    VERSION: 2

PROJECT: NCRDS88

COUNTY: CRAWFORD    TWP/RNG: 6N 12W    SECTION: 2    QUARTERS/FOOTAGES: 120' N line, 320' E line of NW SW SE

QUADRANGLE: FLAT ROCK    LONGITUDE: -87.712166

GEOLOGIST: R. SMITH

CONFIDENTIAL: N    LATITUDE: 38.98863

DATE COLLECTED: 3 / 0 / 1960

SURFACE ELEVATION (FT.):    LOGGED (FT.): 450.0

LOG TYPE: Other Core Study

SOURCE: FENIX & SCISSON, INC.

WELL TYPE: Structure Test

COMMENT: CORE DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNKNOWN	100.0	0.0	
-	MATTOON		CLAYSTONE	2.5	100.0	
-	MATTOON		SANDSTONE	4.5	102.5	
-	MATTOON		GRAY SHALE	1.0	107.0	
-	MATTOON		SANDSTONE	2.0	108.0	
-	MATTOON		GRAY SHALE	25.0	110.0	
-	BOND	MILLERSVILLE	LIMESTONE	2.0	135.0	
-	BOND		BLACK SHALE	1.0	137.0	
-	BOND	BRISTOL HILL	COAL	0.2	138.0	
-	BOND		UNDERCLAY	2.3	138.2	
-	BOND		SANDSTONE	19.5	140.5	
-	BOND		GRAY SHALE	7.0	160.0	
-	BOND	WITT	COAL	1.0	167.0	UNCERTAIN CORRELATION
-	BOND		UNDERCLAY	1.0	168.0	
-	BOND		GRAY SHALE	1.0	169.0	
-	BOND		SANDSTONE	4.0	170.0	
-	BOND		GRAY SHALE	13.5	174.0	
-	BOND	FLANNIGAN	COAL	1.0	187.5	UNCERTAIN CORRELATION
-	BOND		GRAY SHALE	21.5	188.5	
-	BOND		SANDSTONE	53.0	210.0	
-	BOND		GRAY SHALE	2.0	263.0	
-	BOND		SANDSTONE	30.0	265.0	
-	BOND		SILTSTONE	5.0	295.0	
-	BOND		GRAY SHALE	38.0	300.0	
-	BOND		LIMESTONE	1.0	338.0	
-	MODESTO		GRAY SHALE	8.0	339.0	
-	MODESTO		BLACK SHALE	1.2	347.0	
-	MODESTO	CHAPEL	COAL	0.5	348.2	UNCERTAIN CORRELATION
-	MODESTO		UNDERCLAY	1.3	348.7	
-	MODESTO		CLAYSTONE	1.0	350.0	
-	MODESTO		GRAY SHALE	7.0	351.0	
-	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	358.0	UNCERTAIN CORRELATION
-	MODESTO		GRAY SHALE	13.0	363.0	
-	MODESTO		SANDSTONE	14.0	376.0	
-	MODESTO		GRAY SHALE	13.0	390.0	
-	MODESTO		SANDSTONE	47.0	403.0	



MAPID: 03308251000C    VERSION: 1

PROJECT: NCRDS88

COUNTY: CRAWFORD    TWP/RNG: 6N 12W    SECTION: 2    QUARTERS/FOOTAGES: 210' S line, 70' E line of NW SW NW

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.721218

GEOLOGIST: R. SMITH

CONFIDENTIAL: N

LATITUDE: 38.995434

DATE COLLECTED: 2 / 0 / 1957

SURFACE ELEVATION (FT.): 536.6

LOGGED (FT.): 500.0

LOG TYPE: Other Core Study

SOURCE: OHIO OIL CO.

WELL TYPE: Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
536.6			CORE LOSS	36.0	0.0	
500.6	MATTOON		SANDSTONE	16.5	36.0	
484.1	MATTOON		CONGLOMERATE	7.5	52.5	SOME COAL FRAGMENTS
476.6	MATTOON		CORE LOSS	12.0	60.0	
464.6	MATTOON		SHALE	1.5	72.0	
463.1	MATTOON		LIMESTONE	1.7	73.5	
461.4	MATTOON		CORE LOSS	0.8	75.2	
460.6	MATTOON		SHALE	2.8	76.0	
457.8	MATTOON	COHN	COAL	0.8	78.8	
456.9	MATTOON		UNDERCLAY	0.8	79.7	
456.1	MATTOON		SHALE	1.3	80.5	
454.8	MATTOON		CORE LOSS	4.3	81.8	
450.6	MATTOON		SHALE	13.8	86.0	
436.8	BOND	MILLERSVILLE	LIMESTONE	4.1	99.8	
432.8	BOND		GRAY SHALE	3.7	103.8	BLACK SH AT BASE
429.1	BOND		CORE LOSS	1.5	107.5	
427.6	BOND		BLACK SHALE	1.2	109.0	
426.4	BOND	BRISTOL HILL	COAL	2.0	110.2	
424.4	BOND		UNDERCLAY	2.7	112.2	
421.8	BOND		SILTSTONE	5.5	114.8	
416.3	BOND		CORE LOSS	0.7	120.3	
415.6	BOND		SILTSTONE	6.0	121.0	
409.6	BOND		GRAY SHALE	23.3	127.0	
386.3	BOND		BLACK SHALE	1.5	150.3	
384.8	BOND		SHALE	4.1	151.8	
380.7	BOND		CORE LOSS	1.4	155.9	
379.3	BOND		SANDSTONE	5.9	157.3	
373.3	BOND		GRAY SHALE	20.4	163.3	CORE LOSS OF 2.5' W/IN THIS INTERVAL
352.9	BOND	FLANNIGAN	COAL	2.0	183.7	
350.9	BOND		GRAY SHALE	7.0	185.7	
343.9	BOND		COAL	1.0	192.7	
342.9	BOND		UNDERCLAY	2.5	193.7	
340.4	BOND		SILTSTONE	3.7	196.2	
336.8	BOND		SANDSTONE	43.3	199.8	
293.4	BOND		GRAY SHALE	24.8	243.2	
268.6	BOND		SANDSTONE	18.2	268.0	
250.4	MODESTO		BLACK SHALE	1.1	286.2	
249.3	MODESTO	NEW HAVEN	COAL	1.0	287.3	
248.3	MODESTO		UNDERCLAY	6.0	288.3	

242.3	MODESTO		GRAY SHALE	56.3	294.3
186.1	MODESTO		LIMESTONE	1.3	350.5
184.8	MODESTO		BLACK SHALE	1.3	351.8
183.6	MODESTO		GRAY SHALE	7.1	353.0
176.5	MODESTO	CHAPEL	COAL	0.9	360.1
175.6	MODESTO		UNDERCLAY	4.0	361.0
171.6	MODESTO		SHALE	8.0	365.0
163.6	MODESTO	WEST FRANKLIN	LIMESTONE	5.8	373.0
157.8	MODESTO		UNDERCLAY	2.5	378.8
155.3	MODESTO		SHALE	11.5	381.3
143.8	MODESTO		SANDSTONE	6.3	392.8
137.6	MODESTO		SILTSTONE	16.3	399.0
121.3	MODESTO	PIRTLE (IN)	COAL	0.8	415.3
120.5	MODESTO		GRAY SHALE	0.6	416.1
119.9	MODESTO		SILTSTONE	22.1	416.7
97.8	MODESTO		SANDSTONE	31.9	438.8
65.9	MODESTO		SILTSTONE	5.3	470.7
60.6	CARBONDALE	DANVILLE	COAL	2.8	476.0
57.8	CARBONDALE		UNDERCLAY	3.7	478.8
54.1	CARBONDALE		GRAY SHALE	2.3	482.5
51.8	CARBONDALE		SANDSTONE	12.8	484.8
39.1	CARBONDALE		SILTSTONE	2.5	497.5

---

MAPID: 03308253000C    VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD    TWP/RNG: 6N 12W    SECTION: 2    QUARTERS/FOOTAGES: 100' N line, 160' E line of NE NW

QUADRANGLE: HUTSONVILLE

LONGITUDE: -87.713874

GEOLOGIST: UITEMP

CONFIDENTIAL: N

LATITUDE: 39.000317

DATE COLLECTED: 4 / 0 / 1960

SURFACE ELEVATION (FT.): 510.0

LOGGED (FT.): 400.0

LOG TYPE: Drillers Log

SOURCE: FENIX & SCISSION, INC.    5

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
410.0	PLEISTOCENE		CLAY	5.0	100.0	GRAY
405.0	MATTOON		SANDSTONE	3.0	105.0	
402.0	MATTOON		GRAY SHALE	31.0	108.0	
371.0	BOND	LIVINGSTON	LIMESTONE	1.0	139.0	GRAY
370.0	BOND		BLACK SHALE	2.0	140.0	
368.0	BOND	BRISTOL HILL	COAL	0.3	142.0	
367.7	BOND		UNDERCLAY	2.7	142.3	GRAY
365.0	BOND		SANDSTONE	15.0	145.0	GRAY
350.0	BOND		GRAY SHALE	8.0	160.0	
342.0	BOND		GRAY SHALE	4.0	168.0	
338.0	BOND		BLACK SHALE	0.3	172.0	
337.7	BOND	WITT	COAL	1.4	172.3	
336.3	BOND		UNDERCLAY	2.3	173.7	GRAY
334.0	BOND		GRAY SHALE	2.0	176.0	
332.0	BOND		GRAY SHALE	2.0	178.0	
330.0	BOND		GRAY SHALE	8.5	180.0	
321.5	BOND	FLANNIGAN	COAL	0.5	188.5	
321.0			SANDSTONE	1.0	189.0	WHITE
320.0			SANDSTONE	15.0	190.0	WHITE
305.0			GRAY SHALE	5.0	205.0	
300.0			GRAY SHALE	7.0	210.0	
293.0			SANDSTONE	1.0	217.0	GREEN
292.0			SANDSTONE/LIMESTONE	2.0	218.0	
290.0			GRAY SHALE	7.0	220.0	
283.0			SANDSTONE	3.0	227.0	WHITE
280.0			SHALY SANDSTONE	20.0	230.0	GRAY
260.0			SANDSTONE	20.0	250.0	WHITE
240.0			SANDSTONE	7.5	270.0	GRAY
232.5	MODESTO		BLACK SHALE	0.5	277.5	
232.0	MODESTO	WOMAC	COAL	0.5	278.0	
231.5	MODESTO		UNDERCLAY	1.5	278.5	GRAY
230.0	MODESTO		SANDSTONE	8.0	280.0	WHITE
222.0	MODESTO		GRAY SHALE	2.0	288.0	
220.0	MODESTO		SANDSTONE	10.0	290.0	WHITE
210.0	MODESTO		SILTSTONE	10.0	300.0	GRAY
200.0	MODESTO		SILTSTONE	9.0	310.0	GRAY
191.0	MODESTO		GRAY SHALE	21.0	319.0	
170.0	MODESTO		GRAY SHALE	5.0	340.0	
165.0	MODESTO		GRAY SHALE	1.0	345.0	

164.0	MODESTO		LIMESTONE	1.0	346.0	BLACK
163.0	MODESTO		GRAY SHALE	2.0	347.0	
161.0	MODESTO		LIMESTONE	1.0	349.0	GRAY
160.0	MODESTO		GRAY SHALE	1.8	350.0	
158.2	MODESTO	CHAPEL	COAL	0.7	351.8	#7
157.5	MODESTO		UNDERCLAY	7.5	352.5	GRAY
150.0			LIMESTONE	1.0	360.0	GRAY
149.0			GRAY SHALE	2.0	361.0	
147.0			LIMESTONE	1.0	363.0	GRAY
146.0			LIMESTONE	2.0	364.0	GRAY
144.0			GRAY SHALE	1.5	366.0	
142.5			LIMESTONE	0.5	367.5	
142.0			GRAY SHALE	2.0	368.0	
140.0			GRAY SHALE	6.0	370.0	
134.0			GRAY SHALE	2.0	376.0	
132.0			GRAY SHALE	2.0	378.0	
130.0			GRAY SHALE	6.0	380.0	
124.0			LIMESTONE	4.0	386.0	GRAY
120.0			SHALY LIMESTONE	2.0	390.0	
118.0			GRAY SHALE	8.0	392.0	

**MAPID:** 0330250000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 6N 12W    **SECTION:** 3    **QUARTERS/FOOTAGES:** SE SW SW  
**QUADRANGLE:** FLAT ROCK    **LONGITUDE:** -87.735374    **GEOLOGIST:** C TREWORYG  
**CONFIDENTIAL:** N    **LATITUDE:** 38.98411    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 532.0    **LOGGED (FT.):** 815.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN	COMMENT
152.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	380.0	
52.0	CARBONDALE	DANVILLE	COAL	3.5	480.0	
15.0	CARBONDALE	JAMESTOWN	COAL	4.5	517.0	
6.0	CARBONDALE	HERRIN	COAL	2.5	526.0	
-54.0	CARBONDALE	SPRINGFIELD	COAL	2.5	586.0	
-149.0	CARBONDALE	HOUCHIN CREEK	COAL	-	681.0	
-252.0	CARBONDALE	COLCHESTER	COAL	-	784.0	
-278.0	SPOON	SEELYVILLE	COAL	5.0	810.0	

**MAPID:** 03302919000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 6N 12W    **SECTION:** 5    **QUARTERS/FOOTAGES:** SW SW SW  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.775748    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.983746    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 534.0    **LOGGED (FT.):** 780.5    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
165.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	369.0
54.0	CARBONDALE	DANVILLE	COAL	4.0	480.0
8.0	CARBONDALE	JAMESTOWN	COAL	-	526.0
0.0	CARBONDALE	HERRIN	COAL	-	534.0
-51.0	CARBONDALE	SPRINGFIELD	COAL	-	585.0
-129.0	CARBONDALE	HOUCHIN CREEK	COAL	-	663.0
-231.0	CARBONDALE	COLCHESTER	COAL	-	765.0
-242.0	SPOON	SEELYVILLE	COAL	4.5	776.0

**MAPID:** 03301403000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 6N 12W    **SECTION:** 6    **QUARTERS/FOOTAGES:** NE SW NW  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.792766    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.993103    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 521.0    **LOGGED (FT.):** 749.5    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
189.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	332.0
81.0	CARBONDALE	DANVILLE	COAL	3.5	440.0
41.0	CARBONDALE	JAMESTOWN	COAL	-	480.0
33.0	CARBONDALE	HERRIN	COAL	-	488.0
-20.0	CARBONDALE	SPRINGFIELD	COAL	-	541.0
-102.0	CARBONDALE	HOUCHIN CREEK	COAL	-	623.0
-209.0	CARBONDALE	COLCHESTER	COAL	-	730.0
-225.0	SPOON	SEELYVILLE	COAL	3.5	746.0

**MAPID:** 0330292000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 6N 12W    **SECTION:** 6    **QUARTERS/FOOTAGES:** SE SE SE  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.778158    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.983735    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 532.0    **LOGGED (FT.):** 774.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
169.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	363.0
58.0	CARBONDALE	DANVILLE	COAL	3.5	474.0
15.0	CARBONDALE	JAMESTOWN	COAL	-	517.0
8.0	CARBONDALE	HERRIN	COAL	-	524.0
-46.0	CARBONDALE	SPRINGFIELD	COAL	3.0	578.0
-128.0	CARBONDALE	HOUCHIN CREEK	COAL	-	660.0
-224.0	CARBONDALE	COLCHESTER	COAL	-	756.0
-238.0	SPOON	SEELYVILLE	COAL	4.0	770.0

**MAPID:** 03300612000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 6N 12W    **SECTION:** 7    **QUARTERS/FOOTAGES:** SE SE SW  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.787456    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.96889    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 525.0    **LOGGED (FT.):** 775.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
61.0	CARBONDALE	DANVILLE	COAL	4.0	464.0
15.0	CARBONDALE	JAMESTOWN	COAL	-	510.0
8.0	CARBONDALE	HERRIN	COAL	-	517.0
-49.0	CARBONDALE	SPRINGFIELD	COAL	-	574.0
-125.0	CARBONDALE	HOUCHIN CREEK	COAL	-	650.0
-227.0	CARBONDALE	COLCHESTER	COAL	-	752.0
-245.0	SPOON	SEELYVILLE	COAL	5.0	770.0

MAPID: 03304378000C    VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD    TWP/RNG: 6N 12W    SECTION: 7    QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: STOY    LONGITUDE: -87.778104    GEOLOGIST: UITEMP

CONFIDENTIAL: N    LATITUDE: 38.981859    DATE COLLECTED: 5 / 7 / 1972

SURFACE ELEVATION (FT.): 530.0    LOGGED (FT.): 781.0    LOG TYPE: Drillers Log

SOURCE: MINERAL RESOURCES INC    3    WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
59.0	CARBONDALE	DANVILLE	COAL	3.4	471.0
16.7	CARBONDALE	JAMESTOWN	COAL	3.5	513.3
-22.0	CARBONDALE		SHALE	7.5	552.0
-29.5	CARBONDALE		SHALE	2.8	559.5
-32.3	CARBONDALE		SHALE	4.3	562.3
-36.5	CARBONDALE	BRIAR HILL	COAL	1.9	566.5
-38.4	CARBONDALE		SANDSTONE	4.0	568.4
-42.4	CARBONDALE		SHALE	1.4	572.4
-43.8	CARBONDALE		LIMESTONE	2.5	573.8
-46.3	CARBONDALE		SHALE	1.3	576.3
-47.6	CARBONDALE		SHALE	0.3	577.6
-47.8	CARBONDALE	SPRINGFIELD	COAL	3.1	577.8
-50.9	CARBONDALE		CLAYSTONE & SILTSTONE	3.2	580.9
-54.1	CARBONDALE		UNDERCLAY	167.4	584.1
-221.5	CARBONDALE		SHALE	5.5	751.5
-227.0	CARBONDALE		LIMESTONE	0.2	757.0
-227.2	CARBONDALE		SHALE	0.5	757.2
-227.7	CARBONDALE		SHALE	0.9	757.7
-228.6	CARBONDALE		SHALE	0.3	758.6
-228.9	CARBONDALE		SHALE	0.1	758.9
-229.0	CARBONDALE	COLCHESTER	COAL	1.0	759.0
-230.0	SPOON		CLAYSTONE & SILTSTONE	2.6	760.0
-232.6	SPOON		SANDSTONE	1.6	762.6
-234.2	SPOON		SHALE	4.1	764.2
-238.3	SPOON		SHALE	2.8	768.3
-241.1	SPOON		SHALE	1.7	771.1
-242.8	SPOON	SEELYVILLE	COAL	5.7	772.8
-248.4	SPOON		CLAYSTONE & SILTSTONE	2.7	778.4

MAPID: 03302921000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 12W

SECTION: 8

QUARTERS/FOOTAGES: SW SE NW

QUADRANGLE: STOY

LONGITUDE: -87.770795

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.976356

DATE COLLECTED:

SURFACE ELEVATION (FT.): 505.0

LOGGED (FT.): 776.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
37.0	CARBONDALE	DANVILLE	COAL	4.0	468.0
-1.0	CARBONDALE	JAMESTOWN	COAL	-	506.0
-9.0	CARBONDALE	HERRIN	COAL	-	514.0
-69.0	CARBONDALE	SPRINGFIELD	COAL	3.0	574.0
-150.0	CARBONDALE	HOUCHIN CREEK	COAL	-	655.0
-255.0	CARBONDALE	COLCHESTER	COAL	-	760.0
-266.0	SPOON	SEELYVILLE	COAL	5.0	771.0

MAPID: 03302501000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 12W

SECTION: 10

QUARTERS/FOOTAGES: NE NE NW

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.73069

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.982283

DATE COLLECTED:

SURFACE ELEVATION (FT.): 518.0

LOGGED (FT.): 779.5

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
174.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	344.0
66.0	CARBONDALE	DANVILLE	COAL	3.5	452.0
29.0	CARBONDALE	JAMESTOWN	COAL	-	489.0
19.0	CARBONDALE	HERRIN	COAL	-	499.0
-40.0	CARBONDALE	SPRINGFIELD	COAL	2.0	558.0
-132.0	CARBONDALE	HOUCHIN CREEK	COAL	-	650.0
-237.0	CARBONDALE	COLCHESTER	COAL	-	755.0
-256.0	SPOON	SEELYVILLE	COAL	5.5	774.0



MAPID: 03302502000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 12W SECTION: 11 QUARTERS/FOOTAGES: SE NE NE

QUADRANGLE: FLAT ROCK LONGITUDE: -87.705087 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.982319 DATE COLLECTED:

SURFACE ELEVATION (FT.): 536.0 LOGGED (FT.): 799.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
171.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	365.0
64.0	CARBONDALE	DANVILLE	COAL	4.0	472.0
26.0	CARBONDALE	JAMESTOWN	COAL	-	510.0
16.0	CARBONDALE	HERRIN	COAL	2.0	520.0
-38.0	CARBONDALE	SPRINGFIELD	COAL	-	574.0
-134.0	CARBONDALE	HOUCHIN CREEK	COAL	-	670.0
-237.0	CARBONDALE	COLCHESTER	COAL	-	773.0
-257.0	SPOON	SEELYVILLE	COAL	6.0	793.0

MAPID: 03303037000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 12W SECTION: 12 QUARTERS/FOOTAGES: NW SW NW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.702692 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.980479 DATE COLLECTED:

SURFACE ELEVATION (FT.): 544.0 LOGGED (FT.): 812.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
175.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	369.0
68.0	CARBONDALE	DANVILLE	COAL	-	476.0
30.0	CARBONDALE	JAMESTOWN	COAL	-	514.0
21.0	CARBONDALE	HERRIN	COAL	1.5	523.0
-35.0	CARBONDALE	SPRINGFIELD	COAL	2.5	579.0
-123.0	CARBONDALE	HOUCHIN CREEK	COAL	-	667.0
-226.0	CARBONDALE	COLCHESTER	COAL	-	770.0
-263.0	SPOON	SEELYVILLE	COAL	5.5	807.0

MAPID: 03300771000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 6N 12W    SECTION: 13    QUARTERS/FOOTAGES: NE SW SE  
 QUADRANGLE: FLAT ROCK    LONGITUDE: -87.69058    GEOLOGIST: C TREWORGY  
 CONFIDENTIAL: N    LATITUDE: 38.958434    DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 521.0    LOGGED (FT.): 782.0    LOG TYPE: Electric Log  
 SOURCE:    WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
183.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	338.0
76.0	CARBONDALE	DANVILLE	COAL	4.0	445.0
34.0	CARBONDALE	JAMESTOWN	COAL	-	487.0
26.0	CARBONDALE	HERRIN	COAL	-	495.0
-30.0	CARBONDALE	SPRINGFIELD	COAL	-	551.0
-118.0	CARBONDALE	HOUCHIN CREEK	COAL	-	639.0
-219.0	CARBONDALE	COLCHESTER	COAL	-	740.0
-256.0	SPOON	SEELYVILLE	COAL	5.0	777.0

MAPID: 03307632000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 6N 12W    SECTION: 14    QUARTERS/FOOTAGES: SW SW NW  
 QUADRANGLE: FLAT ROCK    LONGITUDE: -87.721438    GEOLOGIST: C TREWORGY  
 CONFIDENTIAL: N    LATITUDE: 38.96383    DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 554.0    LOGGED (FT.): 819.0    LOG TYPE: Electric Log  
 SOURCE:    WELL TYPE: Oil and Gas Test  
 COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
187.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	367.0
75.0	CARBONDALE	DANVILLE	COAL	-	479.0
36.0	CARBONDALE	JAMESTOWN	COAL	-	518.0
29.0	CARBONDALE	HERRIN	COAL	2.0	525.0
-31.0	CARBONDALE	SPRINGFIELD	COAL	2.5	585.0
-114.0	CARBONDALE	HOUCHIN CREEK	COAL	-	668.0
-238.0	CARBONDALE	COLCHESTER	COAL	-	792.0
-265.0	SPOON	SEELYVILLE	COAL	-	819.0

MAPID: 03300515000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 12W

SECTION: 15

QUARTERS/FOOTAGES: SW NE SW

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.735405

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.960122

DATE COLLECTED:

SURFACE ELEVATION (FT.): 530.0

LOGGED (FT.): 778.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
200.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	330.0
86.0	CARBONDALE	DANVILLE	COAL	3.0	444.0
44.0	CARBONDALE	JAMESTOWN	COAL	-	486.0
40.0	CARBONDALE	HERRIN	COAL	-	490.0
-20.0	CARBONDALE	SPRINGFIELD	COAL	3.0	550.0
-112.0	CARBONDALE	HOUCHIN CREEK	COAL	-	642.0
-231.0	CARBONDALE	COLCHESTER	COAL	-	761.0
-242.0	SPOON	SEELYVILLE	COAL	6.0	772.0

MAPID: 03301878000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 12W

SECTION: 15

QUARTERS/FOOTAGES: NW SE NE

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.726139

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.965664

DATE COLLECTED:

SURFACE ELEVATION (FT.): 542.0

LOGGED (FT.): 809.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
184.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	358.0
75.0	CARBONDALE	DANVILLE	COAL	3.5	467.0
36.0	CARBONDALE	JAMESTOWN	COAL	-	506.0
28.0	CARBONDALE	HERRIN	COAL	2.5	514.0
-33.0	CARBONDALE	SPRINGFIELD	COAL	2.5	575.0
-118.0	CARBONDALE	HOUCHIN CREEK	COAL	-	660.0
-247.0	CARBONDALE	COLCHESTER	COAL	-	789.0
-261.0	SPOON	SEELYVILLE	COAL	6.0	803.0

MAPID: 03300273000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 6N 12W    SECTION: 16    QUARTERS/FOOTAGES: NE SE SW

QUADRANGLE: FLAT ROCK    LONGITUDE: -87.749285    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 38.956273    DATE COLLECTED:

SURFACE ELEVATION (FT.): 527.0    LOGGED (FT.): 774.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
192.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	335.0
82.0	CARBONDALE	DANVILLE	COAL	4.0	445.0
39.0	CARBONDALE	JAMESTOWN	COAL	-	488.0
34.0	CARBONDALE	HERRIN	COAL	-	493.0
-24.0	CARBONDALE	SPRINGFIELD	COAL	-	551.0
-100.0	CARBONDALE	HOUCHIN CREEK	COAL	-	627.0
-223.0	CARBONDALE	COLCHESTER	COAL	-	750.0
-243.0	SPOON	SEELYVILLE	COAL	4.0	770.0

MAPID: 03300476000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 6N 12W    SECTION: 16    QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: FLAT ROCK    LONGITUDE: -87.74461    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 38.961876    DATE COLLECTED:

SURFACE ELEVATION (FT.): 532.0    LOGGED (FT.): 789.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
194.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	338.0
84.0	CARBONDALE	DANVILLE	COAL	4.5	448.0
42.0	CARBONDALE	JAMESTOWN	COAL	-	490.0
37.0	CARBONDALE	HERRIN	COAL	-	495.0
-23.0	CARBONDALE	SPRINGFIELD	COAL	3.0	555.0
-105.0	CARBONDALE	HOUCHIN CREEK	COAL	-	637.0
-238.0	CARBONDALE	COLCHESTER	COAL	-	770.0
-251.0	SPOON	SEELYVILLE	COAL	6.0	783.0

MAPID: 03308548000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 12W

SECTION: 17

QUARTERS/FOOTAGES: SE SW SW

QUADRANGLE: STOY

LONGITUDE: -87.772879

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.954126

DATE COLLECTED:

SURFACE ELEVATION (FT.): 530.0

LOGGED (FT.): 790.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
53.0	CARBONDALE	DANVILLE	COAL	-	477.0
10.0	CARBONDALE	JAMESTOWN	COAL	-	520.0
2.0	CARBONDALE	HERRIN	COAL	-	528.0
-55.0	CARBONDALE	SPRINGFIELD	COAL	-	585.0
-135.0	CARBONDALE	HOUCHIN CREEK	COAL	-	665.0
-246.0	CARBONDALE	COLCHESTER	COAL	-	776.0
-260.0	SPOON	SEELYVILLE	COAL	-	790.0

MAPID: 03301017000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 12W

SECTION: 19

QUARTERS/FOOTAGES: NE SW SE

QUADRANGLE: STOY

LONGITUDE: -87.782168

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.941168

DATE COLLECTED:

SURFACE ELEVATION (FT.): 485.0

LOGGED (FT.): 737.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
69.0	CARBONDALE	DANVILLE	COAL	4.0	416.0
25.0	CARBONDALE	JAMESTOWN	COAL	3.0	460.0
19.0	CARBONDALE	HERRIN	COAL	-	466.0
-38.0	CARBONDALE	SPRINGFIELD	COAL	3.5	523.0
-117.0	CARBONDALE	HOUCHIN CREEK	COAL	-	602.0
-215.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-247.0	SPOON	SEELYVILLE	COAL	5.0	732.0

MAPID: 03301989000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 6N 12W    SECTION: 19    QUARTERS/FOOTAGES: 450' N line, 30' E line  
QUADRANGLE: STOY    LONGITUDE: -87.776504    GEOLOGIST: C TREWORY  
CONFIDENTIAL: N    LATITUDE: 38.951919    DATE COLLECTED:  
SURFACE ELEVATION (FT.): 502.0    LOGGED (FT.): 768.0    LOG TYPE: Electric Log  
SOURCE:    WELL TYPE: Oil and Gas Test  
COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
48.0	CARBONDALE	DANVILLE	COAL	3.5	454.0
2.0	CARBONDALE	JAMESTOWN	COAL	-	500.0
-6.0	CARBONDALE	HERRIN	COAL	-	508.0
-61.0	CARBONDALE	SPRINGFIELD	COAL	3.5	563.0
-144.0	CARBONDALE	HOUCHIN CREEK	COAL	-	646.0
-248.0	CARBONDALE	COLCHESTER	COAL	-	750.0
-261.0	SPOON	SEELYVILLE	COAL	5.0	763.0

---

MAPID: 03304381000C    VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD

TWP/RNG: 6N 12W

SECTION: 19

QUARTERS/FOOTAGES: NE NE NW

QUADRANGLE: STOY

LONGITUDE: -87.787171

GEOLOGIST: UITEMP

CONFIDENTIAL: N

LATITUDE: 38.952272

DATE COLLECTED: 6 / 12 / 1972

SURFACE ELEVATION (FT.): 515.0

LOGGED (FT.): 812.0

LOG TYPE: Drillers Log

SOURCE: MINERAL RESOURCES INC    4

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
515.0	PLEISTOCENE		UNCONSOLIDATED	28.0	0.0	
487.0	PLEISTOCENE		UNCONSOLIDATED	46.0	28.0	
441.0			SILTY SHALE	36.0	74.0	
405.0			GREEN SHALE	9.5	110.0	
395.5	BOND		BLACK SHALE	1.0	119.5	
394.5	BOND	BRISTOL HILL	COAL	0.5	120.5	
394.0	BOND		CLAYSTONE & SILTSTONE	3.0	121.0	
391.0	BOND		CALCAREOUS SHALE	2.5	124.0	
388.5			SANDSTONE	8.5	126.5	
380.0			SHALY SANDSTONE	33.5	135.0	
346.5			GREEN SHALE	5.5	168.5	
341.0			SHALE	19.0	174.0	
322.0			CALCAREOUS SHALE	17.5	193.0	D
304.5			SHALE	43.5	210.5	
261.0			BLACK SHALE	4.0	254.0	
257.0			GREEN SHALE	4.0	258.0	
253.0			CALCAREOUS SHALE	5.5	262.0	
247.5			SHALY SANDSTONE	102.5	267.5	
145.0			SANDSTONE	72.3	370.0	GREEN
72.7			SANDY SHALE	15.7	442.3	
57.0			SHALE	6.0	458.0	
51.0			BLACK SHALE	1.5	464.0	
49.5	CARBONDALE	DANVILLE	COAL	2.5	465.5	
47.0	CARBONDALE		UNDERCLAY	1.8	468.0	
45.2	CARBONDALE		SILTY SHALE	9.2	469.8	
36.0	CARBONDALE		SANDSTONE	11.0	479.0	
25.0	CARBONDALE		SANDY SHALE	7.0	490.0	
18.0	CARBONDALE		GREEN SHALE	4.9	497.0	
13.1	CARBONDALE		FOSSILIFEROUS LIMESTONE	2.7	501.9	BROWN
10.4	CARBONDALE		BLACK SHALE	0.9	504.6	
9.5	CARBONDALE	JAMESTOWN	COAL	4.4	505.5	
5.1	CARBONDALE		UNDERCLAY	0.7	509.9	
4.4	CARBONDALE		BROWN SHALE	1.9	510.6	
2.5	CARBONDALE		DARK SHALE	0.7	512.5	
1.8	CARBONDALE	HERRIN	COAL	3.8	513.2	
-1.9	CARBONDALE		UNDERCLAY	2.0	516.9	
-3.9	CARBONDALE		SHALY LIMESTONE	0.8	518.9	
-4.8	CARBONDALE		SHALE	3.7	519.8	

-8.4	CARBONDALE		SANDY SHALE	23.6	523.4	
-32.0	CARBONDALE		SILTY SHALE	6.1	547.0	
-38.1	CARBONDALE		DARK SHALE	4.3	553.1	
-42.4	CARBONDALE		BLACK SHALE	0.6	557.4	
-43.0	CARBONDALE	BRIAR HILL	COAL	2.3	558.0	
-45.3	CARBONDALE		UNDERCLAY	0.3	560.3	
-45.5	CARBONDALE		SANDSTONE	3.4	560.5	
-48.9	CARBONDALE		SHALE	2.0	563.9	
-50.9	CARBONDALE		BLACK SHALE	3.1	565.9	
-54.0	CARBONDALE		BLACK SHALE	1.8	569.0	
-55.8	CARBONDALE		BLACK SHALE	0.9	570.8	
-56.7	CARBONDALE		FOSSILIFEROUS LIMESTONE	0.1	571.7	BROWN
-56.8	CARBONDALE	SPRINGFIELD	COAL	3.7	571.8	
-60.4	CARBONDALE		UNDERCLAY	1.4	575.4	
-61.8	CARBONDALE		SILTY SHALE	3.2	576.8	
-65.0	CARBONDALE		SHALE	47.0	580.0	
-112.0	CARBONDALE		BROWN SHALE	9.5	627.0	
-121.5	CARBONDALE		SILTY SHALE	7.5	636.5	
-129.0	CARBONDALE		SHALE	7.3	644.0	
-136.3	CARBONDALE		BLACK SHALE	12.4	651.3	
-148.8	CARBONDALE	HOUCHIN CREEK	COAL	1.3	663.8	
-150.0	CARBONDALE		SILTY SHALE	1.5	665.0	
-151.5	CARBONDALE		SHALY SANDSTONE	11.5	666.5	
-163.0	CARBONDALE		SHALE	5.0	678.0	
-168.0	CARBONDALE		SHALY SANDSTONE	12.7	683.0	
-180.7	CARBONDALE		SILTY SHALE	1.5	695.7	
-182.2	CARBONDALE		BLACK SHALE	0.7	697.2	
-182.9	CARBONDALE		SILTY SHALE	20.9	697.9	
-203.8	CARBONDALE	SURVANT	COAL	0.8	718.8	
-204.5	CARBONDALE		UNDERCLAY	1.5	719.5	
-206.0	CARBONDALE		SILTY SHALE	41.2	721.0	
-247.2	CARBONDALE		BLACK SHALE	9.2	762.2	
-256.4	CARBONDALE		FOSSILIFEROUS LIMESTONE	0.3	771.4	
-256.7	CARBONDALE		BLACK SHALE	3.5	771.7	
-260.2	CARBONDALE	COLCHESTER	COAL	1.7	775.2	
-261.9	SPOON		UNDERCLAY	5.7	776.9	
-267.5	SPOON		SILTY SHALE	4.2	782.5	
-271.7	SPOON		SANDSTONE	7.3	786.7	
-279.0	SPOON		SILTY SHALE	7.1	794.0	
-286.1	SPOON		DARK SHALE	1.5	801.1	
-287.6	SPOON	SEELYVILLE	COAL	3.5	802.6	
-291.1	SPOON	SEELYVILLE	UNDERCLAY	0.5	806.1	
-291.6	SPOON	SEELYVILLE	COAL	4.0	806.6	
-295.6	SPOON		UNDERCLAY	2.2	810.6	

---



MAPID: 0330235000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 12W

SECTION: 20

QUARTERS/FOOTAGES: SW SW SE

QUADRANGLE: STOY

LONGITUDE: -87.765535

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.939491

DATE COLLECTED:

SURFACE ELEVATION (FT.): 471.0

LOGGED (FT.): 696.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
191.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	280.0
81.0	CARBONDALE	DANVILLE	COAL	3.0	390.0
34.0	CARBONDALE	JAMESTOWN	COAL	-	437.0
28.0	CARBONDALE	HERRIN	COAL	-	443.0
-31.0	CARBONDALE	SPRINGFIELD	COAL	2.5	502.0
-116.0	CARBONDALE	HOUCHIN CREEK	COAL	-	587.0
-209.0	CARBONDALE	COLCHESTER	COAL	-	680.0
-219.0	SPOON	SEELYVILLE	COAL	6.0	690.0

MAPID: 03301538000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 12W

SECTION: 21

QUARTERS/FOOTAGES: NW NW NE

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.746936

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.952617

DATE COLLECTED:

SURFACE ELEVATION (FT.): 533.0

LOGGED (FT.): 758.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
208.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	325.0
98.0	CARBONDALE	DANVILLE	COAL	3.0	435.0
61.0	CARBONDALE	JAMESTOWN	COAL	-	472.0
53.0	CARBONDALE	HERRIN	COAL	2.0	480.0
-12.0	CARBONDALE	SPRINGFIELD	COAL	5.0	545.0
-92.0	CARBONDALE	HOUCHIN CREEK	COAL	-	625.0
-209.0	CARBONDALE	COLCHESTER	COAL	-	742.0
-221.0	SPOON	SEELYVILLE	COAL	4.0	754.0

MAPID: 03301902000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 12W SECTION: 21 QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.749213 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.947041 DATE COLLECTED:

SURFACE ELEVATION (FT.): 490.0 LOGGED (FT.): 720.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
205.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	285.0
95.0	CARBONDALE	DANVILLE	COAL	3.0	395.0
52.0	CARBONDALE	JAMESTOWN	COAL	-	438.0
48.0	CARBONDALE	HERRIN	COAL	-	442.0
-14.0	CARBONDALE	SPRINGFIELD	COAL	3.5	504.0
-100.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0
-214.0	CARBONDALE	COLCHESTER	COAL	-	704.0
-225.0	SPOON	SEELYVILLE	COAL	5.0	715.0

MAPID: 03303836000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 12W SECTION: 22 QUARTERS/FOOTAGES: 1030' N line, 573' W line of NW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.737933 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.952617 DATE COLLECTED:

SURFACE ELEVATION (FT.): 539.0 LOGGED (FT.): 780.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
89.0	CARBONDALE	DANVILLE	COAL	2.5	450.0
45.0	CARBONDALE	JAMESTOWN	COAL	-	494.0
-19.0	CARBONDALE	SPRINGFIELD	COAL	3.0	558.0
-110.0	CARBONDALE	HOUCHIN CREEK	COAL	-	649.0
-223.0	CARBONDALE	COLCHESTER	COAL	-	762.0
-236.0	SPOON	SEELYVILLE	COAL	5.0	775.0

MAPID: 03307470000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 12W SECTION: 22 QUARTERS/FOOTAGES: SW SW SE

QUADRANGLE: FLAT ROCK LONGITUDE: -87.730731 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.941648 DATE COLLECTED:

SURFACE ELEVATION (FT.): 547.0 LOGGED (FT.): 776.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
277.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	270.0
89.0	CARBONDALE	DANVILLE	COAL	4.0	458.0
44.0	CARBONDALE	JAMESTOWN	COAL	-	503.0
-21.0	CARBONDALE	SPRINGFIELD	COAL	3.0	568.0
-103.0	CARBONDALE	HOUCHIN CREEK	COAL	-	650.0
-229.0	CARBONDALE	COLCHESTER	COAL	-	776.0

MAPID: 03307523000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 12W SECTION: 23 QUARTERS/FOOTAGES: 380' S line, 330' W line of NW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.721351 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.949253 DATE COLLECTED:

SURFACE ELEVATION (FT.): 560.0 LOGGED (FT.): 815.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
107.0	CARBONDALE	DANVILLE	COAL	3.0	453.0
33.0	CARBONDALE	JAMESTOWN	COAL	-	527.0
27.0	CARBONDALE	HERRIN	COAL	2.0	533.0
-34.0	CARBONDALE	SPRINGFIELD	COAL	2.5	594.0
-116.0	CARBONDALE	HOUCHIN CREEK	COAL	-	676.0
-233.0	CARBONDALE	COLCHESTER	COAL	-	793.0
-250.0	SPOON	SEELYVILLE	COAL	5.5	810.0

MAPID: 0330438000C    VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD    TWP/RNG: 6N 12W    SECTION: 24    QUARTERS/FOOTAGES: NW NW SW

QUADRANGLE: FLAT ROCK    LONGITUDE: -87.702525

GEOLOGIST: UITEMP

CONFIDENTIAL: N    LATITUDE: 38.947304

DATE COLLECTED: 5 / 24 / 1972

SURFACE ELEVATION (FT.): 585.0    LOGGED (FT.): 799.3

LOG TYPE: Drillers Log

SOURCE: MINERAL RESOURCES INC    2

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.0	PLEISTOCENE		UNCONSOLIDATED	10.0	0.0	
575.0			SANDSTONE	90.8	10.0	
484.2			SANDSTONE	3.5	100.8	
480.7			SILTY SHALE	4.7	104.3	
476.0			SANDSTONE	10.0	109.0	
466.0			SANDSTONE	1.5	119.0	
464.5			SANDY SHALE	7.5	120.5	
457.0			SHALE	9.5	128.0	
447.5			DARK SHALE	2.8	137.5	
444.7	BOND	LIVINGSTON	FOSSILIFEROUS LIMESTONE	3.4	140.3	GRAY
441.2	BOND	LIVINGSTON	CALCAREOUS SHALE	1.1	143.8	
440.2	BOND	LIVINGSTON	LIMESTONE	0.4	144.8	
439.7	BOND		BLACK SHALE	3.3	145.3	
436.4	BOND	BRISTOL HILL	COAL	1.0	148.6	
435.4	BOND		SILTY SHALE	6.9	149.6	
428.5	BOND		SHALY SANDSTONE	9.2	156.5	
419.3	BOND		SANDY SHALE	13.7	165.7	
405.7	BOND		SILTY SHALE	9.0	179.3	
396.7	BOND		SHALE	3.5	188.3	
393.2	BOND		SHALE	0.5	191.8	
392.7	BOND		BLACK SHALE	1.2	192.3	
391.5	BOND	WITT	COAL	0.7	193.5	
390.8	BOND		SHALY SANDSTONE	26.8	194.2	
364.0	BOND		SHALE	4.0	221.0	
360.0	BOND	FLANNIGAN	COAL	2.3	225.0	
357.7			SANDSTONE	3.3	227.3	
354.4			BLACK SHALE	4.3	230.6	
350.1			CLAYSTONE & SILTSTONE	8.8	234.9	
341.3			SILTY SHALE	6.7	243.7	
334.7			SANDSTONE	26.0	250.3	
308.7			SANDSTONE	4.7	276.3	
304.0			SANDY SHALE	18.8	281.0	
285.2			SHALE	14.2	299.8	
271.0			SANDY SHALE	28.2	314.0	
242.8			BLACK SHALE	4.0	342.2	
238.8	MODESTO	CHAPEL	COAL	1.2	346.2	
237.7	MODESTO		UNDERCLAY	0.3	347.3	
237.3	MODESTO		SILTY SHALE	0.8	347.7	

236.5	MODESTO		CALCAREOUS SHALE	1.5	348.5	
235.0	MODESTO		SANDSTONE	3.3	350.0	
231.7	MODESTO		SANDY SHALE	12.3	353.3	
219.5	MODESTO		BLACK SHALE	10.5	365.5	
209.0	MODESTO		SHALE	33.0	376.0	
176.0	MODESTO		SANDY SHALE	5.0	409.0	
171.0	MODESTO		SANDY SHALE	60.0	414.0	
111.0	MODESTO		LIMESTONE	5.0	474.0	BROWN
106.0	MODESTO		SANDSTONE	2.0	479.0	
104.0	MODESTO		SILTY SHALE	21.6	481.0	
82.4	CARBONDALE	DANVILLE	COAL	2.9	502.6	
79.5	CARBONDALE		UNDERCLAY	1.1	505.5	
78.4	CARBONDALE		GREEN SHALE	5.4	506.6	
73.0	CARBONDALE		SHALY LIMESTONE	4.5	512.0	
68.5	CARBONDALE		GREEN SHALE	3.7	516.5	
64.8	CARBONDALE		CALCAREOUS SHALE	1.8	520.2	
63.0	CARBONDALE		SANDY SHALE	3.0	522.0	
60.0	CARBONDALE		SHALE	5.3	525.0	
54.7	CARBONDALE		SHALE	9.5	530.3	
45.2	CARBONDALE		BLACK SHALE	0.8	539.8	
44.5	CARBONDALE		LIMESTONE	1.0	540.5	
43.5	CARBONDALE		BLACK SHALE	0.5	541.5	
43.0	CARBONDALE	JAMESTOWN	COAL	3.8	542.0	
39.2	CARBONDALE		GRAY SHALE	0.8	545.8	
38.5	CARBONDALE		GREEN SHALE	1.8	546.5	
36.7	CARBONDALE		GREEN SHALE	0.9	548.3	
35.8	CARBONDALE	HERRIN	COAL	0.8	549.2	
35.1	CARBONDALE		SILTY SHALE	3.9	549.9	
31.2	CARBONDALE		SHALY SANDSTONE	37.2	553.8	
-6.0	CARBONDALE		SILTY SHALE	7.6	591.0	
-13.6	CARBONDALE		SANDSTONE	3.5	598.6	
-17.1	CARBONDALE		SHALE	3.9	602.1	
-21.0	CARBONDALE		LIMESTONE	3.8	606.0	
-24.8	CARBONDALE		BLACK SHALE	0.8	609.8	
-25.7	CARBONDALE	SPRINGFIELD	COAL	2.2	610.7	
-27.8	CARBONDALE		UNDERCLAY	1.8	612.8	
-29.6	CARBONDALE		SILTY SHALE	5.4	614.6	
-35.0	CARBONDALE		SHALE & SANDSTONE	25.5	620.0	
-60.5	CARBONDALE		SILTY SHALE	43.5	645.5	
-104.0	CARBONDALE	HOUCHIN CREEK	COAL	0.3	689.0	
-104.3	CARBONDALE		SILTY SHALE	5.6	689.3	
-109.8	CARBONDALE		BLACK SHALE	4.3	694.8	
-114.2	CARBONDALE	SURVANT	COAL	0.7	699.2	
-114.8	CARBONDALE		SILTY SHALE	6.2	699.8	
-121.0	CARBONDALE		GRAY SHALE	3.5	706.0	
-124.5	CARBONDALE		GREEN SHALE	17.5	709.5	
-142.0	CARBONDALE		SHALY SANDSTONE	19.4	727.0	
-161.4	CARBONDALE		BLACK SHALE	5.1	746.4	

-166.5	CARBONDALE		SHALY SANDSTONE	13.5	751.5
-180.0	CARBONDALE		BLACK SHALE	0.8	765.0
-180.8	CARBONDALE	COLCHESTER	COAL	0.4	765.8
-181.3	SPOON		SANDSTONE	33.0	766.3

**MAPID:** 03307655000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 6N 12W    **SECTION:** 24    **QUARTERS/FOOTAGES:** SE SW NE  
**QUADRANGLE:** FLAT ROCK    **LONGITUDE:** -87.690549    **GEOLOGIST:** C TREWORYG  
**CONFIDENTIAL:** N    **LATITUDE:** 38.94925    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 541.0    **LOGGED (FT.):** 796.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
187.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	354.0
84.0	CARBONDALE	DANVILLE	COAL	-	457.0
41.0	CARBONDALE	JAMESTOWN	COAL	-	500.0
35.0	CARBONDALE	HERRIN	COAL	1.5	506.0
-25.0	CARBONDALE	SPRINGFIELD	COAL	-	566.0
-114.0	CARBONDALE	HOUCHIN CREEK	COAL	-	655.0
-233.0	CARBONDALE	COLCHESTER	COAL	-	774.0
-255.0	SPOON	SEELYVILLE	COAL	-	796.0

**MAPID:** 03300460000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 6N 12W    **SECTION:** 25    **QUARTERS/FOOTAGES:** SW SE NE  
**QUADRANGLE:** FLAT ROCK    **LONGITUDE:** -87.688119    **GEOLOGIST:** C TREWORYG  
**CONFIDENTIAL:** N    **LATITUDE:** 38.934591    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 555.0    **LOGGED (FT.):** 809.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
102.0	CARBONDALE	DANVILLE	COAL	4.0	453.0
59.0	CARBONDALE	JAMESTOWN	COAL	-	496.0
55.0	CARBONDALE	HERRIN	COAL	-	500.0
-27.0	CARBONDALE	SPRINGFIELD	COAL	3.5	582.0
-129.0	CARBONDALE	HOUCHIN CREEK	COAL	-	684.0
-236.0	CARBONDALE	COLCHESTER	COAL	-	791.0
-248.0	SPOON	SEELYVILLE	COAL	6.0	803.0

MAPID: 0330258000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 12W SECTION: 26 QUARTERS/FOOTAGES: SE NE SE

QUADRANGLE: FLAT ROCK LONGITUDE: -87.704818 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.930753 DATE COLLECTED:

SURFACE ELEVATION (FT.): 618.0 LOGGED (FT.): 846.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
108.0	CARBONDALE	DANVILLE	COAL	-	510.0
71.0	CARBONDALE	JAMESTOWN	COAL	-	547.0
-102.0	CARBONDALE	HOUCHIN CREEK	COAL	-	720.0
-210.0	CARBONDALE	COLCHESTER	COAL	-	828.0
-228.0	SPOON	SEELYVILLE	COAL	-	846.0

MAPID: 03300278000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 12W SECTION: 27 QUARTERS/FOOTAGES: NW NW SW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.740082 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.93241 DATE COLLECTED:

SURFACE ELEVATION (FT.): 576.0 LOGGED (FT.): 812.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
100.0	CARBONDALE	DANVILLE	COAL	5.0	476.0
50.0	CARBONDALE	JAMESTOWN	COAL	-	526.0
-13.0	CARBONDALE	SPRINGFIELD	COAL	4.0	589.0
-101.0	CARBONDALE	HOUCHIN CREEK	COAL	-	677.0
-212.0	CARBONDALE	COLCHESTER	COAL	-	788.0
-230.0	SPOON	SEELYVILLE	COAL	6.0	806.0

MAPID: 03307669000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 12W SECTION: 27 QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: FLAT ROCK LONGITUDE: -87.730716 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.93797 DATE COLLECTED:

SURFACE ELEVATION (FT.): 517.0 LOGGED (FT.): 765.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
84.0	CARBONDALE	DANVILLE	COAL	3.0	433.0
40.0	CARBONDALE	JAMESTOWN	COAL	-	477.0
37.0	CARBONDALE	HERRIN	COAL	-	480.0
-23.0	CARBONDALE	SPRINGFIELD	COAL	3.0	540.0
-103.0	CARBONDALE	HOUCHIN CREEK	COAL	-	620.0
-228.0	CARBONDALE	COLCHESTER	COAL	-	745.0
-245.0	SPOON	SEELYVILLE	COAL	3.0	762.0

MAPID: 03300180000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 12W SECTION: 28 QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: FLAT ROCK LONGITUDE: -87.74706 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.926968 DATE COLLECTED:

SURFACE ELEVATION (FT.): 582.0 LOGGED (FT.): 801.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
186.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	396.0
88.0	CARBONDALE	DANVILLE	COAL	3.0	494.0
47.0	CARBONDALE	JAMESTOWN	COAL	-	535.0
-22.0	CARBONDALE	SPRINGFIELD	COAL	3.0	604.0
-112.0	CARBONDALE	HOUCHIN CREEK	COAL	-	694.0
-194.0	CARBONDALE	COLCHESTER	COAL	-	776.0
-216.0	SPOON	SEELYVILLE	COAL	3.0	798.0



MAPID: 03303855000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 6N 12W    SECTION: 28    QUARTERS/FOOTAGES: 330' S line, 632' E line of NW SE

QUADRANGLE: FLAT ROCK    LONGITUDE: -87.748154    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 38.930646    DATE COLLECTED:

SURFACE ELEVATION (FT.): 550.0    LOGGED (FT.): 769.5    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
200.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	350.0
88.0	CARBONDALE	DANVILLE	COAL	3.0	462.0
47.0	CARBONDALE	JAMESTOWN	COAL	-	503.0
42.0	CARBONDALE	HERRIN	COAL	-	508.0
-14.0	CARBONDALE	SPRINGFIELD	COAL	3.0	564.0
-96.0	CARBONDALE	HOUCHIN CREEK	COAL	-	646.0
-192.0	CARBONDALE	COLCHESTER	COAL	-	742.0
-216.0	SPOON	SEELYVILLE	COAL	3.5	766.0

MAPID: 03300280000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 6N 12W    SECTION: 29    QUARTERS/FOOTAGES: SE NE NE

QUADRANGLE: STOY    LONGITUDE: -87.758454    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 38.93587    DATE COLLECTED:

SURFACE ELEVATION (FT.): 504.0    LOGGED (FT.): 742.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
173.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	331.0
72.0	CARBONDALE	DANVILLE	COAL	4.0	432.0
29.0	CARBONDALE	JAMESTOWN	COAL	-	475.0
21.0	CARBONDALE	HERRIN	COAL	-	483.0
-43.0	CARBONDALE	SPRINGFIELD	COAL	4.0	547.0
-133.0	CARBONDALE	HOUCHIN CREEK	COAL	-	637.0
-220.0	CARBONDALE	COLCHESTER	COAL	-	724.0
-231.0	SPOON	SEELYVILLE	COAL	7.0	735.0

MAPID: 03308932000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 12W SECTION: 29 QUARTERS/FOOTAGES: 370' S line, 1766' E line of NW

QUADRANGLE: STOY LONGITUDE: -87.772937 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.932132 DATE COLLECTED:

SURFACE ELEVATION (FT.): 471.0 LOGGED (FT.): 704.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
78.0	CARBONDALE	DANVILLE	COAL	3.5	393.0
31.0	CARBONDALE	JAMESTOWN	COAL	-	440.0
26.0	CARBONDALE	HERRIN	COAL	-	445.0
-35.0	CARBONDALE	SPRINGFIELD	COAL	2.5	506.0
-119.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0
-216.0	CARBONDALE	COLCHESTER	COAL	-	687.0
-229.0	SPOON	SEELYVILLE	COAL	4.5	700.0

MAPID: 03302410000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 12W SECTION: 30 QUARTERS/FOOTAGES: 330' S line, 360' E line of NW

QUADRANGLE: STOY LONGITUDE: -87.786948 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.931939 DATE COLLECTED:

SURFACE ELEVATION (FT.): 482.0 LOGGED (FT.): 724.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
73.0	CARBONDALE	DANVILLE	COAL	2.0	409.0
27.0	CARBONDALE	JAMESTOWN	COAL	-	455.0
21.0	CARBONDALE	HERRIN	COAL	-	461.0
-36.0	CARBONDALE	SPRINGFIELD	COAL	2.5	518.0
-118.0	CARBONDALE	HOUCHIN CREEK	COAL	-	600.0
-218.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-237.0	SPOON	SEELYVILLE	COAL	5.0	719.0

MAPID: 03303874000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 12W

SECTION: 30

QUARTERS/FOOTAGES: NE SE SE

QUADRANGLE: STOY

LONGITUDE: -87.777359

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.926465

DATE COLLECTED:

SURFACE ELEVATION (FT.): 463.0

LOGGED (FT.): 706.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
190.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	273.0
70.0	CARBONDALE	DANVILLE	COAL	4.0	393.0
23.0	CARBONDALE	JAMESTOWN	COAL	-	440.0
7.0	CARBONDALE	HERRIN	COAL	-	456.0
-43.0	CARBONDALE	SPRINGFIELD	COAL	2.5	506.0
-126.0	CARBONDALE	HOUCHIN CREEK	COAL	-	589.0
-223.0	CARBONDALE	COLCHESTER	COAL	-	686.0
-237.0	SPOON	SEELYVILLE	COAL	6.0	700.0

MAPID: 03300230000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 12W

SECTION: 31

QUARTERS/FOOTAGES: 30' S line, 30' W line of NE SE

QUADRANGLE: STOY

LONGITUDE: -87.780745

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.91279

DATE COLLECTED:

SURFACE ELEVATION (FT.): 468.0

LOGGED (FT.): 709.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
80.0	CARBONDALE	DANVILLE	COAL	2.0	388.0
38.0	CARBONDALE	JAMESTOWN	COAL	-	430.0
32.0	CARBONDALE	HERRIN	COAL	-	436.0
-37.0	CARBONDALE	SPRINGFIELD	COAL	3.0	505.0
-117.0	CARBONDALE	HOUCHIN CREEK	COAL	-	585.0
-212.0	CARBONDALE	COLCHESTER	COAL	-	680.0
-236.0	SPOON	SEELYVILLE	COAL	5.0	704.0

**MAPID:** 03301368000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 6N 12W    **SECTION:** 31    **QUARTERS/FOOTAGES:** NE NE NE  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.777371    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.922785    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 460.0    **LOGGED (FT.):** 703.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
187.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	273.0
76.0	CARBONDALE	DANVILLE	COAL	3.0	384.0
27.0	CARBONDALE	JAMESTOWN	COAL	-	433.0
22.0	CARBONDALE	HERRIN	COAL	-	438.0
-40.0	CARBONDALE	SPRINGFIELD	COAL	3.0	500.0
-124.0	CARBONDALE	HOUCHIN CREEK	COAL	-	584.0
-220.0	CARBONDALE	COLCHESTER	COAL	-	680.0
-239.0	SPOON	SEELYVILLE	COAL	4.0	699.0

**MAPID:** 03300559000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 6N 12W    **SECTION:** 32    **QUARTERS/FOOTAGES:** SW NW SE  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.765609    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.913763    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 497.0    **LOGGED (FT.):** 718.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
209.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	288.0
89.0	CARBONDALE	DANVILLE	COAL	4.0	408.0
53.0	CARBONDALE	JAMESTOWN	COAL	-	444.0
47.0	CARBONDALE	HERRIN	COAL	-	450.0
-6.0	CARBONDALE	SPRINGFIELD	COAL	3.0	503.0
-114.0	CARBONDALE	HOUCHIN CREEK	COAL	-	611.0
-196.0	CARBONDALE	COLCHESTER	COAL	-	693.0
-216.0	SPOON	SEELYVILLE	COAL	5.0	713.0

MAPID: 03301375000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 12W

SECTION: 32

QUARTERS/FOOTAGES: SW NW SW

QUADRANGLE: STOY

LONGITUDE: -87.774985

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.913635

DATE COLLECTED:

SURFACE ELEVATION (FT.): 480.0

LOGGED (FT.): 694.5

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
209.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	271.0
99.0	CARBONDALE	DANVILLE	COAL	4.0	381.0
50.0	CARBONDALE	JAMESTOWN	COAL	-	430.0
46.0	CARBONDALE	HERRIN	COAL	-	434.0
-14.0	CARBONDALE	SPRINGFIELD	COAL	3.0	494.0
-98.0	CARBONDALE	HOUCHIN CREEK	COAL	-	578.0
-191.0	CARBONDALE	COLCHESTER	COAL	-	671.0
-211.0	SPOON	SEELYVILLE	COAL	3.5	691.0

MAPID: 03300395000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 12W

SECTION: 33

QUARTERS/FOOTAGES: 677' N line, 817' E line of SW SW

QUADRANGLE: STOY

LONGITUDE: -87.757737

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.91309

DATE COLLECTED:

SURFACE ELEVATION (FT.): 523.0

LOGGED (FT.): 736.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
204.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	319.0
105.0	CARBONDALE	DANVILLE	COAL	4.0	418.0
56.0	CARBONDALE	JAMESTOWN	COAL	-	467.0
-9.0	CARBONDALE	SPRINGFIELD	COAL	3.0	532.0
-114.0	CARBONDALE	HOUCHIN CREEK	COAL	-	637.0
-188.0	CARBONDALE	COLCHESTER	COAL	-	711.0
-207.0	SPOON	SEELYVILLE	COAL	6.0	730.0

MAPID: 03303933000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 12W SECTION: 33 QUARTERS/FOOTAGES: 330' N line, 380' W line of NE NE

QUADRANGLE: FLAT ROCK LONGITUDE: -87.744533 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.925121 DATE COLLECTED:

SURFACE ELEVATION (FT.): 573.0 LOGGED (FT.): 797.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
86.0	CARBONDALE	DANVILLE	COAL	4.0	487.0
49.0	CARBONDALE	JAMESTOWN	COAL	2.0	524.0
44.0	CARBONDALE	HERRIN	COAL	2.0	529.0
-22.0	CARBONDALE	SPRINGFIELD	COAL	3.5	595.0
-112.0	CARBONDALE	HOUCHIN CREEK	COAL	-	685.0
-200.0	CARBONDALE	COLCHESTER	COAL	-	773.0
-218.0	SPOON	SEELYVILLE	COAL	6.0	791.0

MAPID: 03300437000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 12W SECTION: 35 QUARTERS/FOOTAGES: NE NE NW

QUADRANGLE: FLAT ROCK LONGITUDE: -87.714174 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.925198 DATE COLLECTED:

SURFACE ELEVATION (FT.): 615.0 LOGGED (FT.): 820.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
125.0	CARBONDALE	DANVILLE	COAL	-	490.0
5.0	CARBONDALE	SPRINGFIELD	COAL	-	610.0
-81.0	CARBONDALE	HOUCHIN CREEK	COAL	-	696.0
-195.0	CARBONDALE	COLCHESTER	COAL	-	810.0
-205.0	SPOON	SEELYVILLE	COAL	-	820.0

MAPID: 03301405000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 12W

SECTION: 35

QUARTERS/FOOTAGES: SW NE SW

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.716443

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.916065

DATE COLLECTED:

SURFACE ELEVATION (FT.): 581.0

LOGGED (FT.): 811.5

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
227.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	354.0
128.0	CARBONDALE	DANVILLE	COAL	3.5	453.0
85.0	CARBONDALE	JAMESTOWN	COAL	-	496.0
4.0	CARBONDALE	SPRINGFIELD	COAL	-	577.0
-87.0	CARBONDALE	HOUCHIN CREEK	COAL	-	668.0
-199.0	CARBONDALE	COLCHESTER	COAL	-	780.0
-227.0	SPOON	SEELYVILLE	COAL	3.5	808.0

MAPID: 03303042000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 12W

SECTION: 36

QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: FLAT ROCK

LONGITUDE: -87.685713

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.925412

DATE COLLECTED:

SURFACE ELEVATION (FT.): 551.0

LOGGED (FT.): 813.5

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
86.0	CARBONDALE	DANVILLE	COAL	4.0	465.0
37.0	CARBONDALE	JAMESTOWN	COAL	-	514.0
-29.0	CARBONDALE	SPRINGFIELD	COAL	2.5	580.0
-119.0	CARBONDALE	HOUCHIN CREEK	COAL	-	670.0
-242.0	CARBONDALE	COLCHESTER	COAL	-	793.0
-258.0	SPOON	SEELYVILLE	COAL	4.5	809.0

MAPID: 03300243000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 6N 13W    SECTION: 1    QUARTERS/FOOTAGES: 670' N line, 655' E line

QUADRANGLE: STOY    LONGITUDE: -87.798699    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 38.995918    DATE COLLECTED:

SURFACE ELEVATION (FT.): 520.0    LOGGED (FT.): 742.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
201.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	319.0
97.0	CARBONDALE	DANVILLE	COAL	2.5	423.0
56.0	CARBONDALE	JAMESTOWN	COAL	2.5	464.0
48.0	CARBONDALE	HERRIN	COAL	2.0	472.0
-6.0	CARBONDALE	SPRINGFIELD	COAL	2.5	526.0
-80.0	CARBONDALE	HOUCHIN CREEK	COAL	-	600.0
-200.0	CARBONDALE	COLCHESTER	COAL	-	720.0
-219.0	SPOON	SEELYVILLE	COAL	3.0	739.0

MAPID: 03308414000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 6N 13W    SECTION: 2    QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: STOY    LONGITUDE: -87.82053    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 38.991152    DATE COLLECTED:

SURFACE ELEVATION (FT.): 509.0    LOGGED (FT.): 735.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
196.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	313.0
99.0	CARBONDALE	DANVILLE	COAL	-	410.0
55.0	CARBONDALE	JAMESTOWN	COAL	-	454.0
48.0	CARBONDALE	HERRIN	COAL	-	461.0
-4.0	CARBONDALE	SPRINGFIELD	COAL	-	513.0
-78.0	CARBONDALE	HOUCHIN CREEK	COAL	-	587.0
-195.0	CARBONDALE	COLCHESTER	COAL	-	704.0
-226.0	SPOON	SEELYVILLE	COAL	-	735.0



**MAPID:** 03302144000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 6N 13W    **SECTION:** 3    **QUARTERS/FOOTAGES:** SW NE NE  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.836886    **GEOLOGIST:** C TREWORYG  
**CONFIDENTIAL:** N    **LATITUDE:** 38.994808    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 497.0    **LOGGED (FT.):** 707.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
84.0	CARBONDALE	DANVILLE	COAL	-	413.0	
40.0	CARBONDALE	JAMESTOWN	COAL	-	457.0	
36.0	CARBONDALE	HERRIN	COAL	-	461.0	
-18.0	CARBONDALE	SPRINGFIELD	COAL	-	515.0	
-93.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0	
-183.0	CARBONDALE	COLCHESTER	COAL	-	680.0	
-210.0	SPOON	SEELYVILLE	COAL	-	707.0	

**MAPID:** 03300002000C    **VERSION:** 1    **PROJECT:** CONTROL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 6N 13W    **SECTION:** 4    **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SE SW  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.864957    **GEOLOGIST:** HINES  
**CONFIDENTIAL:** N    **LATITUDE:** 38.983322    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):**    **LOGGED (FT.):** 2817.0    **LOG TYPE:** Survey Sample Study  
**SOURCE:** WAYMIRE A W    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			NO RECORD	0.0	0.0	

**MAPID:** 03307474000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 6N 13W    **SECTION:** 4    **QUARTERS/FOOTAGES:** NW SE SW  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.864969    **GEOLOGIST:** C TREWORYG  
**CONFIDENTIAL:** N    **LATITUDE:** 38.985246    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 480.0    **LOGGED (FT.):** 685.0    **LOG TYPE:** Nuclear Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
96.0	CARBONDALE	DANVILLE	COAL	3.0	384.0	
52.0	CARBONDALE	JAMESTOWN	COAL	2.5	428.0	
48.0	CARBONDALE	HERRIN	COAL	2.0	432.0	
-4.0	CARBONDALE	SPRINGFIELD	COAL	2.5	484.0	
-71.0	CARBONDALE	HOUCHIN CREEK	COAL	-	551.0	
-189.0	CARBONDALE	COLCHESTER	COAL	-	669.0	
-200.0	SPOON	SEELYVILLE	COAL	5.0	680.0	

MAPID: 03300245000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 5 QUARTERS/FOOTAGES: 30' N line, 733' E line of NW NE

QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.878167 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.997546 DATE COLLECTED:

SURFACE ELEVATION (FT.): 482.0 LOGGED (FT.): 674.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
108.0	CARBONDALE	DANVILLE	COAL	3.5	374.0
65.0	CARBONDALE	JAMESTOWN	COAL	2.5	417.0
60.0	CARBONDALE	HERRIN	COAL	2.0	422.0
6.0	CARBONDALE	SPRINGFIELD	COAL	2.5	476.0
-64.0	CARBONDALE	HOUCHIN CREEK	COAL	-	546.0
-160.0	CARBONDALE	COLCHESTER	COAL	-	642.0
-185.0	SPOON	SEELYVILLE	COAL	7.0	667.0

MAPID: 03303980000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 5 QUARTERS/FOOTAGES: 693' S line, 660' W line

QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.887387 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.984344 DATE COLLECTED:

SURFACE ELEVATION (FT.): 458.0 LOGGED (FT.): 681.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
64.0	CARBONDALE	DANVILLE	COAL	3.0	394.0
23.0	CARBONDALE	JAMESTOWN	COAL	-	435.0
15.0	CARBONDALE	HERRIN	COAL	-	443.0
-35.0	CARBONDALE	SPRINGFIELD	COAL	3.0	493.0
-102.0	CARBONDALE	HOUCHIN CREEK	COAL	-	560.0
-193.0	CARBONDALE	COLCHESTER	COAL	-	651.0
-217.0	SPOON	SEELYVILLE	COAL	6.0	675.0

MAPID: 03300247000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 6 QUARTERS/FOOTAGES: 693' S line, 660' E line  
 QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.892057 GEOLOGIST: C TREWORGY  
 CONFIDENTIAL: N LATITUDE: 38.984362 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 484.0 LOGGED (FT.): 736.5 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
150.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	334.0
36.0	CARBONDALE	DANVILLE	COAL	2.5	448.0
-5.0	CARBONDALE	JAMESTOWN	COAL	-	489.0
-10.0	CARBONDALE	HERRIN	COAL	-	494.0
-63.0	CARBONDALE	SPRINGFIELD	COAL	3.0	547.0
-129.0	CARBONDALE	HOUCHIN CREEK	COAL	-	613.0
-227.0	CARBONDALE	COLCHESTER	COAL	-	711.0
-249.0	SPOON	SEELYVILLE	COAL	3.5	733.0

MAPID: 03300248000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 7 QUARTERS/FOOTAGES: SW NE NW  
 QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.902718 GEOLOGIST: C TREWORGY  
 CONFIDENTIAL: N LATITUDE: 38.979701 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 491.0 LOGGED (FT.): 815.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
94.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	397.0
-29.0	CARBONDALE	DANVILLE	COAL	-	520.0
-66.0	CARBONDALE	JAMESTOWN	COAL	-	557.0
-71.0	CARBONDALE	HERRIN	COAL	-	562.0
-122.0	CARBONDALE	SPRINGFIELD	COAL	-	613.0
-194.0	CARBONDALE	HOUCHIN CREEK	COAL	-	685.0
-298.0	CARBONDALE	COLCHESTER	COAL	-	789.0
-324.0	SPOON	SEELYVILLE	COAL	-	815.0

**MAPID:** 03301640000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 6N 13W    **SECTION:** 8    **QUARTERS/FOOTAGES:** NE SE SE  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.871774    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.970407    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 460.0    **LOGGED (FT.):** 676.5    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
196.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	264.0
71.0	CARBONDALE	DANVILLE	COAL	-	389.0
30.0	CARBONDALE	JAMESTOWN	COAL	-	430.0
25.0	CARBONDALE	HERRIN	COAL	-	435.0
-28.0	CARBONDALE	SPRINGFIELD	COAL	3.5	488.0
-96.0	CARBONDALE	HOUCHIN CREEK	COAL	-	556.0
-197.0	CARBONDALE	COLCHESTER	COAL	-	657.0
-212.0	SPOON	SEELYVILLE	COAL	4.5	672.0

**MAPID:** 03308499000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 6N 13W    **SECTION:** 8    **QUARTERS/FOOTAGES:** NE SE NW  
**QUADRANGLE:** OBLONG SOUTH    **LONGITUDE:** -87.881389    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.977778    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 459.0    **LOGGED (FT.):** 699.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
162.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	297.0
48.0	CARBONDALE	DANVILLE	COAL	-	411.0
7.0	CARBONDALE	JAMESTOWN	COAL	-	452.0
1.0	CARBONDALE	HERRIN	COAL	-	458.0
-52.0	CARBONDALE	SPRINGFIELD	COAL	2.0	511.0
-118.0	CARBONDALE	HOUCHIN CREEK	COAL	-	577.0
-218.0	CARBONDALE	COLCHESTER	COAL	-	677.0
-240.0	SPOON	SEELYVILLE	COAL	-	699.0

MAPID: 03300249000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 6N 13W    SECTION: 9    QUARTERS/FOOTAGES: 660' N line, 330' E line of NW

QUADRANGLE: STOY    LONGITUDE: -87.862586    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 38.980615    DATE COLLECTED:

SURFACE ELEVATION (FT.): 479.0    LOGGED (FT.): 703.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
163.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	316.0
79.0	CARBONDALE	DANVILLE	COAL	4.0	400.0
33.0	CARBONDALE	JAMESTOWN	COAL	-	446.0
29.0	CARBONDALE	HERRIN	COAL	-	450.0
-26.0	CARBONDALE	SPRINGFIELD	COAL	-	505.0
-137.0	CARBONDALE	HOUCHIN CREEK	COAL	-	616.0
-199.0	CARBONDALE	COLCHESTER	COAL	-	678.0
-217.0	SPOON	SEELYVILLE	COAL	7.0	696.0

MAPID: 03304012000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 6N 13W    SECTION: 9    QUARTERS/FOOTAGES: 330' N line, 660' E line of SE NW

QUADRANGLE: STOY    LONGITUDE: -87.863708    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 38.977834    DATE COLLECTED:

SURFACE ELEVATION (FT.): 479.0    LOGGED (FT.): 710.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
79.0	CARBONDALE	DANVILLE	COAL	3.5	400.0
34.0	CARBONDALE	JAMESTOWN	COAL	-	445.0
30.0	CARBONDALE	HERRIN	COAL	-	449.0
-23.0	CARBONDALE	SPRINGFIELD	COAL	4.0	502.0
-125.0	CARBONDALE	HOUCHIN CREEK	COAL	-	604.0
-199.0	CARBONDALE	COLCHESTER	COAL	-	678.0
-225.0	SPOON	SEELYVILLE	COAL	6.0	704.0

MAPID: 03304054000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 13W

SECTION: 13

QUARTERS/FOOTAGES: SW NE SW

QUADRANGLE: STOY

LONGITUDE: -87.808516

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.957867

DATE COLLECTED:

SURFACE ELEVATION (FT.): 537.0

LOGGED (FT.): 808.5

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
167.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	370.0
49.0	CARBONDALE	DANVILLE	COAL	-	488.0
3.0	CARBONDALE	JAMESTOWN	COAL	-	534.0
-2.0	CARBONDALE	HERRIN	COAL	-	539.0
-61.0	CARBONDALE	SPRINGFIELD	COAL	4.0	598.0
-142.0	CARBONDALE	HOUCHIN CREEK	COAL	-	679.0
-244.0	CARBONDALE	COLCHESTER	COAL	-	781.0
-267.0	SPOON	SEELYVILLE	COAL	4.5	804.0

MAPID: 03301144000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 13W

SECTION: 14

QUARTERS/FOOTAGES: 25' S line, 5' W line of NE SE NW

QUADRANGLE: STOY

LONGITUDE: -87.826071

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.962533

DATE COLLECTED:

SURFACE ELEVATION (FT.): 485.0

LOGGED (FT.): 746.0

LOG TYPE: Nuclear Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
43.0	CARBONDALE	DANVILLE	COAL	3.0	442.0
-5.0	CARBONDALE	JAMESTOWN	COAL	-	490.0
-10.0	CARBONDALE	HERRIN	COAL	-	495.0
-71.0	CARBONDALE	SPRINGFIELD	COAL	3.0	556.0
-159.0	CARBONDALE	HOUCHIN CREEK	COAL	-	644.0
-241.0	CARBONDALE	COLCHESTER	COAL	-	726.0
-254.0	SPOON	SEELYVILLE	COAL	7.0	739.0

MAPID: 03329895000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 15 QUARTERS/FOOTAGES: 2147' S line, 730' W line of SW

QUADRANGLE: STOY LONGITUDE: -87.849226 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.958978 DATE COLLECTED:

SURFACE ELEVATION (FT.): 478.0 LOGGED (FT.): 700.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
79.0	CARBONDALE	DANVILLE	COAL	2.5	399.0
34.0	CARBONDALE	JAMESTOWN	COAL	2.5	444.0
29.0	CARBONDALE	HERRIN	COAL	1.5	449.0
-27.0	CARBONDALE	SPRINGFIELD	COAL	3.0	505.0
-97.0	CARBONDALE	HOUCHIN CREEK	COAL	-	575.0
-198.0	CARBONDALE	COLCHESTER	COAL	-	676.0
-216.0	SPOON	SEELYVILLE	COAL	6.0	694.0

MAPID: 03329896000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 15 QUARTERS/FOOTAGES: 746' S line, 462' W line of SW

QUADRANGLE: STOY LONGITUDE: -87.850144 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.955107 DATE COLLECTED:

SURFACE ELEVATION (FT.): 483.0 LOGGED (FT.): 682.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
99.0	CARBONDALE	DANVILLE	COAL	3.0	384.0
54.0	CARBONDALE	JAMESTOWN	COAL	2.0	429.0
49.0	CARBONDALE	HERRIN	COAL	2.0	434.0
-10.0	CARBONDALE	SPRINGFIELD	COAL	3.0	493.0
-69.0	CARBONDALE	HOUCHIN CREEK	COAL	-	552.0
-170.0	CARBONDALE	COLCHESTER	COAL	-	653.0
-193.0	SPOON	SEELYVILLE	COAL	6.0	676.0

MAPID: 03330185000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 15 QUARTERS/FOOTAGES: 582' S line, 1456' W line of SW

QUADRANGLE: STOY LONGITUDE: -87.846628 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.954681 DATE COLLECTED:

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 694.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
80.0	CARBONDALE	DANVILLE	COAL	3.0	395.0
34.0	CARBONDALE	JAMESTOWN	COAL	2.0	441.0
29.0	CARBONDALE	HERRIN	COAL	2.0	446.0
-32.0	CARBONDALE	SPRINGFIELD	COAL	3.0	507.0
-105.0	CARBONDALE	HOUCHIN CREEK	COAL	-	580.0
-199.0	CARBONDALE	COLCHESTER	COAL	-	674.0
-212.0	SPOON	SEELYVILLE	COAL	7.0	687.0

MAPID: 03300256000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 16 QUARTERS/FOOTAGES: 65' S line, 1320' E line

QUADRANGLE: STOY LONGITUDE: -87.856426 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.953185 DATE COLLECTED:

SURFACE ELEVATION (FT.): 474.0 LOGGED (FT.): 689.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
82.0	CARBONDALE	DANVILLE	COAL	3.0	392.0
39.0	CARBONDALE	JAMESTOWN	COAL	-	435.0
34.0	CARBONDALE	HERRIN	COAL	-	440.0
-21.0	CARBONDALE	SPRINGFIELD	COAL	4.0	495.0
-86.0	CARBONDALE	HOUCHIN CREEK	COAL	-	560.0
-185.0	CARBONDALE	COLCHESTER	COAL	-	659.0
-210.0	SPOON	SEELYVILLE	COAL	5.5	684.0



MAPID: 03308562000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 17 QUARTERS/FOOTAGES: 660' N line, 10' E line of NW SW

QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.884698 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.958441 DATE COLLECTED:

SURFACE ELEVATION (FT.): 461.0 LOGGED (FT.): 776.5 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
107.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	354.0
-13.0	CARBONDALE	DANVILLE	COAL	3.0	474.0
-56.0	CARBONDALE	JAMESTOWN	COAL	3.0	517.0
-61.0	CARBONDALE	HERRIN	COAL	2.0	522.0
-115.0	CARBONDALE	SPRINGFIELD	COAL	2.0	576.0
-184.0	CARBONDALE	HOUCHIN CREEK	COAL	-	645.0
-288.0	CARBONDALE	COLCHESTER	COAL	-	749.0
-310.0	SPOON	SEELYVILLE	COAL	5.5	771.0

MAPID: 03308026000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 18 QUARTERS/FOOTAGES: 595' S line, 155' E line of NE

QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.890023 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.961897 DATE COLLECTED:

SURFACE ELEVATION (FT.): 477.0 LOGGED (FT.): 799.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
101.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	376.0
-18.0	CARBONDALE	DANVILLE	COAL	2.5	495.0
-60.0	CARBONDALE	JAMESTOWN	COAL	-	537.0
-64.0	CARBONDALE	HERRIN	COAL	-	541.0
-119.0	CARBONDALE	SPRINGFIELD	COAL	3.0	596.0
-189.0	CARBONDALE	HOUCHIN CREEK	COAL	-	666.0
-290.0	CARBONDALE	COLCHESTER	COAL	-	767.0
-317.0	SPOON	SEELYVILLE	COAL	5.0	794.0

MAPID: 0332980000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 21 QUARTERS/FOOTAGES: 1320' N line, 990' E line of SW

QUADRANGLE: STOY LONGITUDE: -87.864531 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.941974 DATE COLLECTED:

SURFACE ELEVATION (FT.): 466.0 LOGGED (FT.): 770.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
68.0	CARBONDALE	DANVILLE	COAL	3.0	398.0
24.0	CARBONDALE	JAMESTOWN	COAL	2.5	442.0
20.0	CARBONDALE	HERRIN	COAL	2.0	446.0
-35.0	CARBONDALE	SPRINGFIELD	COAL	3.0	501.0
-110.0	CARBONDALE	HOUCHIN CREEK	COAL	-	576.0
-210.0	CARBONDALE	COLCHESTER	COAL	-	676.0
-298.0	SPOON	SEELYVILLE	COAL	6.0	764.0

MAPID: 03330521000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 21 QUARTERS/FOOTAGES: 330' N line, 335' E line of NW NE

QUADRANGLE: STOY LONGITUDE: -87.857604 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.952089 DATE COLLECTED:

SURFACE ELEVATION (FT.): 456.0 LOGGED (FT.): 692.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
142.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	314.0
60.0	CARBONDALE	DANVILLE	COAL	3.0	396.0
18.0	CARBONDALE	JAMESTOWN	COAL	3.0	438.0
13.0	CARBONDALE	HERRIN	COAL	2.0	443.0
-44.0	CARBONDALE	SPRINGFIELD	COAL	2.5	500.0
-114.0	CARBONDALE	HOUCHIN CREEK	COAL	-	570.0
-210.0	CARBONDALE	COLCHESTER	COAL	-	666.0
-230.0	SPOON	SEELYVILLE	COAL	6.0	686.0

MAPID: 03330526000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 21 QUARTERS/FOOTAGES: 330' N line, 355' E line of SE NE

QUADRANGLE: STOY LONGITUDE: -87.852996 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.948454 DATE COLLECTED:

SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 700.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
77.0	CARBONDALE	DANVILLE	COAL	3.0	403.0
32.0	CARBONDALE	JAMESTOWN	COAL	2.5	448.0
28.0	CARBONDALE	HERRIN	COAL	2.0	452.0
-30.0	CARBONDALE	SPRINGFIELD	COAL	2.5	510.0
-104.0	CARBONDALE	HOUCHIN CREEK	COAL	-	584.0
-192.0	CARBONDALE	COLCHESTER	COAL	-	672.0
-213.0	SPOON	SEELYVILLE	COAL	7.0	693.0

MAPID: 03329798000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 22 QUARTERS/FOOTAGES: 380' S line, 330' W line of NW SW

QUADRANGLE: STOY LONGITUDE: -87.850557 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.943104 DATE COLLECTED:

SURFACE ELEVATION (FT.): 452.0 LOGGED (FT.): 679.5 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
76.0	CARBONDALE	DANVILLE	COAL	3.0	376.0
32.0	CARBONDALE	JAMESTOWN	COAL	3.0	420.0
26.0	CARBONDALE	HERRIN	COAL	2.0	426.0
-30.0	CARBONDALE	SPRINGFIELD	COAL	2.5	482.0
-115.0	CARBONDALE	HOUCHIN CREEK	COAL	-	567.0
-191.0	CARBONDALE	COLCHESTER	COAL	-	643.0
-221.0	SPOON	SEELYVILLE	COAL	6.5	673.0

MAPID: 03329852000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 22 QUARTERS/FOOTAGES: 1680' N line, 2280' W line of NW

QUADRANGLE: STOY LONGITUDE: -87.843683 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.94846 DATE COLLECTED:

SURFACE ELEVATION (FT.): 485.0 LOGGED (FT.): 714.5 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
76.0	CARBONDALE	DANVILLE	COAL	3.0	409.0
33.0	CARBONDALE	JAMESTOWN	COAL	2.5	452.0
29.0	CARBONDALE	HERRIN	COAL	2.5	456.0
-34.0	CARBONDALE	SPRINGFIELD	COAL	2.5	519.0
-105.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0
-207.0	CARBONDALE	COLCHESTER	COAL	-	692.0
-223.0	SPOON	SEELYVILLE	COAL	6.5	708.0

MAPID: 03300260000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 23 QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: STOY LONGITUDE: -87.822415 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.946769 DATE COLLECTED:

SURFACE ELEVATION (FT.): 514.0 LOGGED (FT.): 770.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
56.0	CARBONDALE	DANVILLE	COAL	2.0	458.0
9.0	CARBONDALE	JAMESTOWN	COAL	-	505.0
4.0	CARBONDALE	HERRIN	COAL	2.0	510.0
-54.0	CARBONDALE	SPRINGFIELD	COAL	2.5	568.0
-134.0	CARBONDALE	HOUCHIN CREEK	COAL	-	648.0
-232.0	CARBONDALE	COLCHESTER	COAL	-	746.0
-251.0	SPOON	SEELYVILLE	COAL	5.0	765.0

MAPID: 03301539000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 13W

SECTION: 24

QUARTERS/FOOTAGES: SW SE SW

QUADRANGLE: STOY

LONGITUDE: -87.808287

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.93946

DATE COLLECTED:

SURFACE ELEVATION (FT.): 506.0

LOGGED (FT.): 759.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
72.0	CARBONDALE	DANVILLE	COAL	4.0	434.0
21.0	CARBONDALE	JAMESTOWN	COAL	-	485.0
18.0	CARBONDALE	HERRIN	COAL	-	488.0
-41.0	CARBONDALE	SPRINGFIELD	COAL	2.5	547.0
-114.0	CARBONDALE	HOUCHIN CREEK	COAL	-	620.0
-215.0	CARBONDALE	COLCHESTER	COAL	-	721.0
-246.0	SPOON	SEELYVILLE	COAL	7.0	752.0

MAPID: 03305059000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 13W

SECTION: 24

QUARTERS/FOOTAGES: SW SW NW

QUADRANGLE: STOY

LONGITUDE: -87.813066

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.946794

DATE COLLECTED:

SURFACE ELEVATION (FT.): 522.0

LOGGED (FT.): 793.5

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
53.0	CARBONDALE	DANVILLE	COAL	4.0	469.0
7.0	CARBONDALE	JAMESTOWN	COAL	-	515.0
2.0	CARBONDALE	HERRIN	COAL	2.0	520.0
-55.0	CARBONDALE	SPRINGFIELD	COAL	4.0	577.0
-128.0	CARBONDALE	HOUCHIN CREEK	COAL	-	650.0
-234.0	CARBONDALE	COLCHESTER	COAL	-	756.0
-266.0	SPOON	SEELYVILLE	COAL	5.5	788.0

MAPID: 03301163000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 13W

SECTION: 25

QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: STOY

LONGITUDE: -87.803486

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.932051

DATE COLLECTED:

SURFACE ELEVATION (FT.): 494.0

LOGGED (FT.): 718.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
94.0	CARBONDALE	DANVILLE	COAL	3.0	400.0
44.0	CARBONDALE	JAMESTOWN	COAL	-	450.0
41.0	CARBONDALE	HERRIN	COAL	-	453.0
-19.0	CARBONDALE	SPRINGFIELD	COAL	2.5	513.0
-100.0	CARBONDALE	HOUCHIN CREEK	COAL	-	594.0
-206.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-217.0	SPOON	SEELYVILLE	COAL	7.0	711.0

MAPID: 03300261000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 13W

SECTION: 26

QUARTERS/FOOTAGES: 640' N line, 720' W line of SW

QUADRANGLE: STOY

LONGITUDE: -87.830219

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.929351

DATE COLLECTED:

SURFACE ELEVATION (FT.): 500.0

LOGGED (FT.): 705.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
120.0	CARBONDALE	DANVILLE	COAL	3.5	380.0
68.0	CARBONDALE	JAMESTOWN	COAL	-	432.0
64.0	CARBONDALE	HERRIN	COAL	-	436.0
0.0	CARBONDALE	SPRINGFIELD	COAL	2.5	500.0
-74.0	CARBONDALE	HOUCHIN CREEK	COAL	-	574.0
-108.0	CARBONDALE	COLCHESTER	COAL	-	608.0
-198.0	SPOON	SEELYVILLE	COAL	7.0	698.0

MAPID: 03308356000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 26 QUARTERS/FOOTAGES: 255' N line, 120' E line of NW SE

QUADRANGLE: STOY LONGITUDE: -87.8192 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.930388 DATE COLLECTED:

SURFACE ELEVATION (FT.): 498.0 LOGGED (FT.): 669.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
120.0	CARBONDALE	DANVILLE	COAL	3.0	378.0
75.0	CARBONDALE	JAMESTOWN	COAL	-	423.0
67.0	CARBONDALE	HERRIN	COAL	2.0	431.0
5.0	CARBONDALE	SPRINGFIELD	COAL	2.5	493.0
-84.0	CARBONDALE	HOUCHIN CREEK	COAL	-	582.0
-179.0	CARBONDALE	COLCHESTER	COAL	-	677.0
-166.0	SPOON	SEELYVILLE	COAL	5.0	664.0

MAPID: 03305208000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 27 QUARTERS/FOOTAGES: 350' S line, 320' W line of NW SE

QUADRANGLE: STOY LONGITUDE: -87.841079 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.928399 DATE COLLECTED:

SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 699.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
106.0	CARBONDALE	DANVILLE	COAL	2.0	374.0
55.0	CARBONDALE	JAMESTOWN	COAL	-	425.0
51.0	CARBONDALE	HERRIN	COAL	-	429.0
-17.0	CARBONDALE	SPRINGFIELD	COAL	3.0	497.0
-93.0	CARBONDALE	HOUCHIN CREEK	COAL	-	573.0
-194.0	CARBONDALE	COLCHESTER	COAL	-	674.0
-214.0	SPOON	SEELYVILLE	COAL	5.0	694.0

MAPID: 03305209000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 27 QUARTERS/FOOTAGES: 300' S line, 350' E line of NW SW

QUADRANGLE: STOY LONGITUDE: -87.848174 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.928241 DATE COLLECTED:

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 723.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
73.0	CARBONDALE	DANVILLE	COAL	2.0	402.0
19.0	CARBONDALE	JAMESTOWN	COAL	-	456.0
15.0	CARBONDALE	HERRIN	COAL	-	460.0
-36.0	CARBONDALE	SPRINGFIELD	COAL	2.5	511.0
-113.0	CARBONDALE	HOUCHIN CREEK	COAL	-	588.0
-225.0	CARBONDALE	COLCHESTER	COAL	-	700.0
-243.0	SPOON	SEELYVILLE	COAL	5.0	718.0

MAPID: 03305258000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 27 QUARTERS/FOOTAGES: SW SE SE

QUADRANGLE: STOY LONGITUDE: -87.83627 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.924697 DATE COLLECTED:

SURFACE ELEVATION (FT.): 490.0 LOGGED (FT.): 711.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
90.0	CARBONDALE	DANVILLE	COAL	3.0	400.0
40.0	CARBONDALE	JAMESTOWN	COAL	-	450.0
36.0	CARBONDALE	HERRIN	COAL	2.0	454.0
-25.0	CARBONDALE	SPRINGFIELD	COAL	-	515.0
-112.0	CARBONDALE	HOUCHIN CREEK	COAL	-	602.0
-204.0	CARBONDALE	COLCHESTER	COAL	-	694.0
-215.0	SPOON	SEELYVILLE	COAL	6.0	705.0



**MAPID:** 03302493000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 6N 13W    **SECTION:** 28    **QUARTERS/FOOTAGES:** SE NE NW  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.862159    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.935543    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 465.0    **LOGGED (FT.):** 725.5    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
112.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	353.0
55.0	CARBONDALE	DANVILLE	COAL	2.0	410.0
13.0	CARBONDALE	JAMESTOWN	COAL	-	452.0
10.0	CARBONDALE	HERRIN	COAL	-	455.0
-51.0	CARBONDALE	SPRINGFIELD	COAL	2.0	516.0
-125.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0
-230.0	CARBONDALE	COLCHESTER	COAL	-	695.0
-254.0	SPOON	SEELYVILLE	COAL	6.5	719.0

**MAPID:** 03305349000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 6N 13W    **SECTION:** 28    **QUARTERS/FOOTAGES:** 660' N line, 25' E line of SE SE  
**QUADRANGLE:** STOY    **LONGITUDE:** -87.851746    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 38.92558    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 473.0    **LOGGED (FT.):** 737.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
55.0	CARBONDALE	DANVILLE	COAL	2.0	418.0
8.0	CARBONDALE	JAMESTOWN	COAL	-	465.0
1.0	CARBONDALE	HERRIN	COAL	-	472.0
-56.0	CARBONDALE	SPRINGFIELD	COAL	2.5	529.0
-132.0	CARBONDALE	HOUCHIN CREEK	COAL	-	605.0
-231.0	CARBONDALE	COLCHESTER	COAL	-	704.0
-258.0	SPOON	SEELYVILLE	COAL	6.0	731.0

MAPID: 03301579000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 13W

SECTION: 30

QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: OBLONG SOUTH

LONGITUDE: -87.899644

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.931718

DATE COLLECTED:

SURFACE ELEVATION (FT.): 450.0

LOGGED (FT.): 1047.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-134.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	584.0
-252.0	CARBONDALE	DANVILLE	COAL	-	702.0
-295.0	CARBONDALE	JAMESTOWN	COAL	-	745.0
-300.0	CARBONDALE	HERRIN	COAL	-	750.0
-360.0	CARBONDALE	SPRINGFIELD	COAL	3.5	810.0
-442.0	CARBONDALE	HOUCHIN CREEK	COAL	-	892.0
-563.0	CARBONDALE	COLCHESTER	COAL	-	1013.0
-592.0	SPOON	SEELYVILLE	COAL	5.0	1042.0

MAPID: 03300233000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 13W

SECTION: 33

QUARTERS/FOOTAGES: 685' N line, 25' E line

QUADRANGLE: STOY

LONGITUDE: -87.851698

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.921846

DATE COLLECTED:

SURFACE ELEVATION (FT.): 477.0

LOGGED (FT.): 750.5

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
47.0	CARBONDALE	DANVILLE	COAL	2.0	430.0
-3.0	CARBONDALE	JAMESTOWN	COAL	-	480.0
-7.0	CARBONDALE	HERRIN	COAL	-	484.0
-59.0	CARBONDALE	SPRINGFIELD	COAL	4.0	536.0
-143.0	CARBONDALE	HOUCHIN CREEK	COAL	-	620.0
-255.0	CARBONDALE	COLCHESTER	COAL	-	732.0
-268.0	SPOON	SEELYVILLE	COAL	5.5	745.0

MAPID: 03300239000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 13W

SECTION: 34

QUARTERS/FOOTAGES: NE NW NW

QUADRANGLE: STOY

LONGITUDE: -87.848081

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.922825

DATE COLLECTED:

SURFACE ELEVATION (FT.): 474.0

LOGGED (FT.): 728.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
79.0	CARBONDALE	DANVILLE	COAL	3.0	395.0
29.0	CARBONDALE	JAMESTOWN	COAL	-	445.0
27.0	CARBONDALE	HERRIN	COAL	-	447.0
-35.0	CARBONDALE	SPRINGFIELD	COAL	3.5	509.0
-109.0	CARBONDALE	HOUCHIN CREEK	COAL	-	583.0
-217.0	CARBONDALE	COLCHESTER	COAL	-	691.0
-248.0	SPOON	SEELYVILLE	COAL	6.0	722.0

MAPID: 03330194000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 13W

SECTION: 34

QUARTERS/FOOTAGES: NE NW SE

QUADRANGLE: STOY

LONGITUDE: -87.838554

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.915447

DATE COLLECTED:

SURFACE ELEVATION (FT.): 508.0

LOGGED (FT.): 758.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
176.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	332.0
71.0	CARBONDALE	DANVILLE	COAL	2.0	437.0
18.0	CARBONDALE	JAMESTOWN	COAL	-	490.0
13.0	CARBONDALE	HERRIN	COAL	-	495.0
-46.0	CARBONDALE	SPRINGFIELD	COAL	-	554.0
-132.0	CARBONDALE	HOUCHIN CREEK	COAL	-	640.0
-227.0	CARBONDALE	COLCHESTER	COAL	-	735.0
-245.0	SPOON	SEELYVILLE	COAL	5.0	753.0

MAPID: 03330213000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 35 QUARTERS/FOOTAGES: 446' N line, 362' E line of SE NW

QUADRANGLE: STOY LONGITUDE: -87.82461 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.9188 DATE COLLECTED:

SURFACE ELEVATION (FT.): 501.0 LOGGED (FT.): 700.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
119.0	CARBONDALE	DANVILLE	COAL	3.0	382.0
78.0	CARBONDALE	JAMESTOWN	COAL	2.5	423.0
73.0	CARBONDALE	HERRIN	COAL	1.5	428.0
14.0	CARBONDALE	SPRINGFIELD	COAL	2.5	487.0
-65.0	CARBONDALE	HOUCHIN CREEK	COAL	-	566.0
-174.0	CARBONDALE	COLCHESTER	COAL	-	675.0
-193.0	SPOON	SEELYVILLE	COAL	6.0	694.0

MAPID: 03330509000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 35 QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: STOY LONGITUDE: -87.822192 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.920936 DATE COLLECTED:

SURFACE ELEVATION (FT.): 486.0 LOGGED (FT.): 687.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
116.0	CARBONDALE	DANVILLE	COAL	3.0	370.0
74.0	CARBONDALE	JAMESTOWN	COAL	3.0	412.0
69.0	CARBONDALE	HERRIN	COAL	2.0	417.0
10.0	CARBONDALE	SPRINGFIELD	COAL	2.5	476.0
-71.0	CARBONDALE	HOUCHIN CREEK	COAL	-	557.0
-178.0	CARBONDALE	COLCHESTER	COAL	-	664.0
-195.0	SPOON	SEELYVILLE	COAL	6.0	681.0

MAPID: 03300828000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 36 QUARTERS/FOOTAGES: 330' S line, 380' W line of SE NE

QUADRANGLE: STOY LONGITUDE: -87.798375 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.917276 DATE COLLECTED:

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 674.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
95.0	CARBONDALE	DANVILLE	COAL	2.0	355.0
48.0	CARBONDALE	JAMESTOWN	COAL	-	402.0
44.0	CARBONDALE	HERRIN	COAL	-	406.0
-14.0	CARBONDALE	SPRINGFIELD	COAL	3.0	464.0
-91.0	CARBONDALE	HOUCHIN CREEK	COAL	-	541.0
-210.0	CARBONDALE	COLCHESTER	COAL	-	660.0
-220.0	SPOON	SEELYVILLE	COAL	4.0	670.0

MAPID: 03330162000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 13W SECTION: 36 QUARTERS/FOOTAGES: 331' S line, 388' W line of NW SW

QUADRANGLE: STOY LONGITUDE: -87.812485 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.913528 DATE COLLECTED:

SURFACE ELEVATION (FT.): 455.0 LOGGED (FT.): 648.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
130.0	CARBONDALE	DANVILLE	COAL	3.0	325.0
85.0	CARBONDALE	JAMESTOWN	COAL	2.5	370.0
75.0	CARBONDALE	HERRIN	COAL	2.0	380.0
21.0	CARBONDALE	SPRINGFIELD	COAL	2.5	434.0
-56.0	CARBONDALE	HOUCHIN CREEK	COAL	-	511.0
-167.0	CARBONDALE	COLCHESTER	COAL	-	622.0
-187.0	SPOON	SEELYVILLE	COAL	6.0	642.0

MAPID: 03330497000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 13W

SECTION: 36

QUARTERS/FOOTAGES: NW SE SW

QUADRANGLE: STOY

LONGITUDE: -87.807909

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.911722

DATE COLLECTED:

SURFACE ELEVATION (FT.): 449.0

LOGGED (FT.): 635.0

LOG TYPE: Nuclear Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
134.0	CARBONDALE	DANVILLE	COAL	3.0	315.0	
90.0	CARBONDALE	JAMESTOWN	COAL	2.5	359.0	
83.0	CARBONDALE	HERRIN	COAL	2.0	366.0	
19.0	CARBONDALE	SPRINGFIELD	COAL	2.5	430.0	
-58.0	CARBONDALE	HOUCHIN CREEK	COAL	-	507.0	
-168.0	CARBONDALE	COLCHESTER	COAL	-	617.0	
-183.0	SPOON	SEELYVILLE	COAL	3.0	632.0	

MAPID: 03300550000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 6N 14W

SECTION: 1

QUARTERS/FOOTAGES: SE SW NW

QUADRANGLE: OBLONG SOUTH

LONGITUDE: -87.923744

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.990687

DATE COLLECTED:

SURFACE ELEVATION (FT.): 503.0

LOGGED (FT.): 710.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-106.0	CARBONDALE	DANVILLE	COAL	-	609.0	
-147.0	CARBONDALE	JAMESTOWN	COAL	-	650.0	
-152.0	CARBONDALE	HERRIN	COAL	-	655.0	
-207.0	CARBONDALE	SPRINGFIELD	COAL	-	710.0	

MAPID: 03329872000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 14W SECTION: 2 QUARTERS/FOOTAGES: SE SE SW

QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.937556 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.983319 DATE COLLECTED:

SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 1034.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-231.0	CARBONDALE	DANVILLE	COAL	-	711.0
-274.0	CARBONDALE	JAMESTOWN	COAL	-	754.0
-280.0	CARBONDALE	HERRIN	COAL	-	760.0
-336.0	CARBONDALE	SPRINGFIELD	COAL	-	816.0
-410.0	CARBONDALE	HOUCHIN CREEK	COAL	-	890.0
-535.0	CARBONDALE	COLCHESTER	COAL	-	1015.0
-554.0	SPOON	SEELYVILLE	COAL	-	1034.0

MAPID: 03300650000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 6N 14W SECTION: 12 QUARTERS/FOOTAGES: NW SW NE

QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.91665 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 38.977879 DATE COLLECTED:

SURFACE ELEVATION (FT.): 499.0 LOGGED (FT.): 879.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
23.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	476.0
-104.0	CARBONDALE	DANVILLE	COAL	2.0	603.0
-151.0	CARBONDALE	HERRIN	COAL	2.5	650.0
-208.0	CARBONDALE	SPRINGFIELD	COAL	3.0	707.0
-281.0	CARBONDALE	HOUCHIN CREEK	COAL	-	780.0
-380.0	CARBONDALE	COLCHESTER	COAL	-	879.0

MAPID: 03329909000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 11W SECTION: 6 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: HUTSONVILLE LONGITUDE: -87.668428 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.074848 DATE COLLECTED:

SURFACE ELEVATION (FT.): 482.0 LOGGED (FT.): 772.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
137.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	345.0	
35.0	CARBONDALE	DANVILLE	COAL	3.0	447.0	
-4.0	CARBONDALE	JAMESTOWN	COAL	-	486.0	
-64.0	CARBONDALE	SPRINGFIELD	COAL	-	546.0	
-168.0	CARBONDALE	HOUCHIN CREEK	COAL	-	650.0	
-257.0	CARBONDALE	COLCHESTER	COAL	-	739.0	
-290.0	SPOON	SEELYVILLE	COAL	-	772.0	

MAPID: 03390110000C VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD TWP/RNG: 7N 11W SECTION: 7 QUARTERS/FOOTAGES: 300' N line, 100' E line of NE NE

QUADRANGLE: HUTSONVILLE LONGITUDE: -87.667662 GEOLOGIST: LAWSON

CONFIDENTIAL: N LATITUDE: 39.073096 DATE COLLECTED: 10 / 0 / 1967

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 550.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 11 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
475.0	PLEISTOCENE		UNCONSOLIDATED	5.0	0.0	
470.0			ROCK	82.0	5.0	
388.0			COAL	1.6	87.0	
386.4			ROCK	85.4	88.6	
301.0			COAL	1.0	174.0	
300.0			ROCK	86.0	175.0	
214.0			COAL	1.0	261.0	
213.0			ROCK	176.0	262.0	
37.0	CARBONDALE	DANVILLE	COAL	3.0	438.0	
34.0	CARBONDALE		ROCK	32.0	441.0	
2.0	CARBONDALE	JAMESTOWN	COAL	3.6	473.0	
-1.6	CARBONDALE		ROCK	55.4	476.6	
-57.0	CARBONDALE	BRIAR HILL	COAL	0.7	532.0	
-57.7	CARBONDALE		ROCK	5.3	532.7	
-63.0	CARBONDALE	SPRINGFIELD	COAL	0.8	538.0	
-63.8	CARBONDALE	SPRINGFIELD	ROCK	0.2	538.8	SULFER BAND
-63.9	CARBONDALE	SPRINGFIELD	COAL	2.7	538.9	
-66.6	CARBONDALE		ROCK	8.4	541.6	



MAPID: 03300107000C    VERSION: 1

PROJECT: NCRDS88

COUNTY: CRAWFORD    TWP/RNG: 7N 11W    SECTION: 8    QUARTERS/FOOTAGES: SE NE

QUADRANGLE: HUTSONVILLE    LONGITUDE: -87.650879    GEOLOGIST: R. SMITH

CONFIDENTIAL: N    LATITUDE: 39.068049    DATE COLLECTED:

SURFACE ELEVATION (FT.): 448.9    LOGGED (FT.): 757.0    LOG TYPE: Drillers Log

SOURCE: PEABODY COAL CO.    WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
448.9			UNCONSOLIDATED	12.0	0.0	
436.9	MATTOON		SANDSTONE	20.0	12.0	
416.9	MATTOON		CLAYSTONE & SHALE	13.0	32.0	
403.9	MATTOON		GRAY SHALE	4.0	45.0	
399.9	BOND	MILLERSVILLE	LIMESTONE	3.0	49.0	
396.9	BOND		BLACK SHALE	3.0	52.0	
393.9	BOND	BRISTOL HILL	COAL	1.0	55.0	
392.9	BOND		CLAYSTONE & SHALE	14.0	56.0	
378.9	BOND		SHALE	15.0	70.0	
363.9	BOND		DARK SHALE	18.0	85.0	
345.9	BOND	WITT	COAL	0.4	103.0	UNCERTAIN CORRELATION
345.5	BOND		UNDERCLAY	4.6	103.4	
340.9	BOND		SHALE	25.5	108.0	
315.4	BOND	FLANNIGAN	COAL	0.5	133.5	
314.9	BOND		SHALE	26.0	134.0	
288.9	BOND		DARK SHALE	17.0	160.0	
271.9	BOND	CARTHAGE	LIMESTONE	1.0	177.0	
270.9	MODESTO		SHALE	48.0	178.0	
222.9	MODESTO		BLACK SHALE	3.0	226.0	
219.9	MODESTO	NEW HAVEN	COAL	1.0	229.0	
218.9	MODESTO		SHALE	5.0	230.0	
213.9	MODESTO		SANDSTONE	10.0	235.0	
203.9	MODESTO		SHALE	52.0	245.0	
151.9	MODESTO		BLACK SHALE	3.0	297.0	
148.9	MODESTO	CHAPEL	COAL	0.5	300.0	
148.4	MODESTO		SHALE	4.5	300.5	
143.9	MODESTO		BLACK SHALE	11.0	305.0	
132.9	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	316.0	
124.9	MODESTO		SHALE	26.0	324.0	
98.9	MODESTO		DARK SHALE	2.0	350.0	
96.9	MODESTO	PIRTLE (IN)	COAL	0.2	352.0	
96.7	MODESTO		UNDERCLAY	0.8	352.2	
95.9	MODESTO		SANDSTONE	17.0	353.0	
78.9	MODESTO		SANDY SHALE	37.0	370.0	
41.9	MODESTO		GRAY SHALE	12.0	407.0	
29.9	CARBONDALE	DANVILLE	COAL	3.3	419.0	
26.6	CARBONDALE		UNDERCLAY	3.7	422.3	
22.9	CARBONDALE		LIMESTONE	5.0	426.0	
17.9	CARBONDALE		DARK SHALE	2.0	431.0	

15.9	CARBONDALE		SHALE	1.0	433.0	
14.9	CARBONDALE		LIMESTONE	3.0	434.0	
11.9	CARBONDALE		SANDY SHALE	7.0	437.0	
4.9	CARBONDALE		DARK SHALE	9.0	444.0	
-4.1	CARBONDALE	JAMESTOWN	COAL/CLAYSTONE	4.0	453.0	
-8.1	CARBONDALE		CALCAREOUS SHALE	9.0	457.0	CLAY, SH AND LS BANDS
-17.1	CARBONDALE	HERRIN	COAL	0.8	466.0	
-17.9	CARBONDALE		UNDERCLAY	6.2	466.8	
-24.1	CARBONDALE		SANDY SHALE	21.0	473.0	
-45.1	CARBONDALE		DARK SHALE	10.0	494.0	
-55.1	CARBONDALE	BRIAR HILL	COAL	2.5	504.0	
-57.6	CARBONDALE		CLAYSTONE & SHALE	5.5	506.5	
-63.1	CARBONDALE		DARK SHALE	1.0	512.0	
-64.1	CARBONDALE	ST. DAVID	LIMESTONE	4.0	513.0	
-68.1	CARBONDALE		DARK SHALE	0.8	517.0	
-68.9	CARBONDALE	SPRINGFIELD	COAL	3.3	517.8	
-72.1	CARBONDALE		UNDERCLAY	6.0	521.0	
-78.1	CARBONDALE		SANDY SHALE	13.0	527.0	
-91.1	CARBONDALE		SANDSTONE	10.0	540.0	
-101.1	CARBONDALE		SANDY SHALE	8.0	550.0	
-109.1	CARBONDALE		GRAY SHALE	58.0	558.0	
-167.1	CARBONDALE		DARK SHALE	8.0	616.0	
-175.1	CARBONDALE	HANOVER	LIMESTONE	5.0	624.0	
-180.1	CARBONDALE		DARK SHALE	2.0	629.0	
-182.1	CARBONDALE	HOUCHIN CREEK	COAL	2.0	631.0	
-184.1	CARBONDALE		SHALE	19.0	633.0	
-203.1	CARBONDALE		SANDSTONE	4.0	652.0	
-207.1	CARBONDALE		SANDY SHALE	3.0	656.0	
-210.1	CARBONDALE		SANDSTONE	42.0	659.0	WITH COAL SEAMS
-252.1	CARBONDALE		GRAY SHALE	4.0	701.0	
-256.1	CARBONDALE	MECCA QUARRY	BLACK SHALE	9.0	705.0	
-265.1	CARBONDALE	COLCHESTER	COAL	0.5	714.0	
-265.6	SPOON		UNDERCLAY	1.5	714.5	
-267.1	SPOON		SANDSTONE	3.0	716.0	
-270.1	SPOON		GRAY SHALE	5.0	719.0	
-275.1	SPOON		SANDY SHALE	8.0	724.0	
-283.1	SPOON		GRAY SHALE	5.0	732.0	
-288.1	SPOON		SANDSTONE	2.0	737.0	
-290.1	SPOON		GRAY SHALE	8.5	739.0	
-298.6	SPOON	SEELYVILLE	COAL	8.5	747.5	
-307.1	SPOON		UNDERCLAY	1.0	756.0	

---

MAPID: 03300107000C    VERSION: 2

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 7N 11W    SECTION: 8    QUARTERS/FOOTAGES: SE NE

QUADRANGLE: HUTSONVILLE    LONGITUDE: -87.650879    GEOLOGIST: C TREWORYG

CONFIDENTIAL: N    LATITUDE: 39.068049    DATE COLLECTED:

SURFACE ELEVATION (FT.): 449.0    LOGGED (FT.): 755.5    LOG TYPE: Drillers Log

SOURCE:    WELL TYPE: Coal Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
133.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	316.0
30.0	CARBONDALE	DANVILLE	COAL	3.3	419.0
-4.0	CARBONDALE	JAMESTOWN	COAL	-	453.0
-17.0	CARBONDALE	HERRIN	COAL	0.8	466.0
-68.0	CARBONDALE	SPRINGFIELD	COAL	3.3	517.0
-182.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	631.0
-265.0	CARBONDALE	COLCHESTER	COAL	0.5	714.0
-298.0	SPOON	SEELYVILLE	COAL	8.5	747.0

MAPID: 03300481000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 7N 11W    SECTION: 8    QUARTERS/FOOTAGES: 330' S line, 330' W line of SE SW

QUADRANGLE: HUTSONVILLE    LONGITUDE: -87.661553    GEOLOGIST: C TREWORYG

CONFIDENTIAL: N    LATITUDE: 39.060061    DATE COLLECTED:

SURFACE ELEVATION (FT.): 465.0    LOGGED (FT.): 767.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: 2.5 #7A@ 387, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
122.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	343.0
33.0	CARBONDALE	DANVILLE	COAL	3.5	432.0
-5.0	CARBONDALE	JAMESTOWN	COAL	-	470.0
-15.0	CARBONDALE	HERRIN	COAL	-	480.0
-70.0	CARBONDALE	SPRINGFIELD	COAL	3.0	535.0
-184.0	CARBONDALE	HOUCHIN CREEK	COAL	-	649.0
-263.0	CARBONDALE	COLCHESTER	COAL	-	728.0
-302.0	SPOON	SEELYVILLE	COAL	-	767.0

MAPID: 03335683000C VERSION: 1

PROJECT: NCRDS94

COUNTY: CRAWFORD TWP/RNG: 7N 11W SECTION: 9 QUARTERS/FOOTAGES: 610' N line, 185' E line of NE NW NE

QUADRANGLE: HUTSONVILLE

LONGITUDE: -87.635211

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 39.07151

DATE COLLECTED: 12 / 3 / 1984

SURFACE ELEVATION (FT.): 452.0

LOGGED (FT.): 735.0

LOG TYPE: Drillers Log

SOURCE: EXXON EIBI-8A

WELL TYPE: Coal Test

COMMENT: NO COAL AFTER 710'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
55.0			GRAY SHALE	4.4	397.0	
50.6			DARK GRAY SHALE	0.4	401.4	NO LOG FROM 0.00-397.00
50.2	CARBONDALE	DANVILLE	COAL	3.6	401.8	
46.6	CARBONDALE		UNDERCLAY	3.4	405.4	
43.2	CARBONDALE		UNDERCLAY	1.9	408.8	
41.3	CARBONDALE		LIMESTONE	0.3	410.7	
41.0	CARBONDALE		SANDSTONE	2.4	411.0	
38.6	CARBONDALE		UNCLASSIFIED	0.6	413.4	CORE LOSS
16.0	CARBONDALE	JAMESTOWN	COAL	3.8	436.0	
3.8	CARBONDALE	HERRIN	COAL	1.1	448.2	
-32.0	CARBONDALE	BRIAR HILL	COAL	2.6	484.0	
-46.5	CARBONDALE	SPRINGFIELD	COAL	2.5	498.5	
-232.0	SPOON		DARK GRAY SHALE	2.5	684.0	
-234.5	SPOON		DARK GRAY SHALE	3.1	686.5	
-237.6	SPOON		SANDSTONE	1.3	689.6	
-238.9	SPOON		SANDSTONE	3.1	690.9	
-241.9	SPOON		DARK GRAY SHALE	4.7	693.9	
-246.6	SPOON		DARK GRAY SHALE	0.7	698.6	
-247.3	SPOON	SEELYVILLE	COAL	7.0	699.3	
-254.3	SPOON		UNDERCLAY	0.6	706.3	
-254.9	SPOON		UNDERCLAY	0.9	706.9	
-255.8	SPOON		UNDERCLAY	2.1	707.8	
-257.8	SPOON		UNCLASSIFIED	0.2	709.8	CORE LOSS

MAPID: 03335684000C    VERSION: 1

PROJECT: NCRDS99

COUNTY: CRAWFORD    TWP/RNG: 7N 11W    SECTION: 9    QUARTERS/FOOTAGES: 610' N line, 160' E line of NE NW NE

QUADRANGLE: HUTSONVILLE    LONGITUDE: -87.635122    GEOLOGIST: J MCBETH

CONFIDENTIAL: N    LATITUDE: 39.071509    DATE COLLECTED: 12 / 3 / 1984

SURFACE ELEVATION (FT.): 452.0    LOGGED (FT.): 1004.0    LOG TYPE: Multiple log types

SOURCE: EXXON    EIBI-8    WELL TYPE: Coal Test

COMMENT: EXXON COAL QUALITY DATA-GEOPHYS LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
452.0			UNCLASSIFIED	11.3	0.0	
440.7			UNCLASSIFIED	104.8	11.3	
336.0			UNCLASSIFIED	3.3	116.0	
332.7	BOND		COAL	1.3	119.3	
331.5	BOND		ROCK	39.5	120.5	COAL AT 127?
292.0	BOND	CARTHAGE	LIMESTONE	2.3	160.0	
289.7	BOND		ROCK	49.5	162.3	
240.2	MODESTO		SHALE	2.0	211.8	LOG TRACE SUGGEST CARBONACEOUS
238.2	MODESTO	NEW HAVEN	COAL	0.8	213.8	
237.5	MODESTO		ROCK	88.0	214.5	THIN COAL AT 282.5 FEET
149.5	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	302.5	
144.5	MODESTO		ROCK	95.0	307.5	
49.5	CARBONDALE	DANVILLE	COAL	3.3	402.5	
46.2	CARBONDALE		ROCK	30.5	405.8	
15.7	CARBONDALE	JAMESTOWN	COAL	3.8	436.3	
12.0	CARBONDALE		ROCK	0.8	440.0	
11.2	CARBONDALE	BRERETON	LIMESTONE	1.8	440.8	
9.5	CARBONDALE		SHALE	1.0	442.5	LOG TRACE SUGGEST CARBONACEOUS
8.5	CARBONDALE		SHALE	5.0	443.5	
3.5	CARBONDALE	HERRIN	COAL	1.0	448.5	
2.5	CARBONDALE		ROCK	34.0	449.5	
-31.5	CARBONDALE	BRIAR HILL	COAL	2.5	483.5	
-34.0	CARBONDALE		ROCK	8.3	486.0	
-42.3	CARBONDALE	ST. DAVID	LIMESTONE	3.0	494.3	
-45.3	CARBONDALE	TURNER MINE	SHALE	1.0	497.3	LOG TRACE SUGGEST CARBONACEOUS
-46.3	CARBONDALE	SPRINGFIELD	COAL	2.8	498.3	
-49.0	CARBONDALE		ROCK	103.5	501.0	
-152.5	CARBONDALE	EXCELLO	SHALE	4.5	604.5	LOG TRACE SUGGEST CARBONACEOUS
-157.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	609.0	
-159.0	CARBONDALE		ROCK	37.3	611.0	
-196.3	CARBONDALE		SANDSTONE	13.8	648.3	
-210.0	CARBONDALE		ROCK	5.5	662.0	
-215.5	CARBONDALE	MECCA QUARRY	SHALE	2.5	667.5	LOG TRACE SUGGEST CARBONACEOUS
-218.0	CARBONDALE		ROCK	21.5	670.0	LOG SAYS "COLCHESTER HORIZON"
-239.5	CARBONDALE		SANDSTONE	3.0	691.5	
-242.5	CARBONDALE		ROCK	6.0	694.5	
-248.5	CARBONDALE	SEELYVILLE	COAL	2.0	700.5	
-250.5	CARBONDALE	SEELYVILLE	ROCK	0.8	702.5	

-251.3	CARBONDALE	SEELYVILLE	COAL	1.3	703.3	
-252.5	CARBONDALE	SEELYVILLE	ROCK	0.8	704.5	
-253.3	CARBONDALE	SEELYVILLE	COAL	1.8	705.3	
-255.0	CARBONDALE		ROCK	20.5	707.0	
-275.5	TRADEWATER	SEAHORNE LS	LIMESTONE	1.8	727.5	
-277.3			SHALE	1.3	729.3	LOG TRACE SUGGEST CARBONACEOUS
-278.5			UNCLASSIFIED	57.0	730.5	
-335.5			COAL	2.3	787.5	
-337.8			UNCLASSIFIED	21.5	789.8	
-359.3			COAL	1.8	811.3	
-361.0			UNCLASSIFIED	52.0	813.0	
-413.0			COAL	1.5	865.0	
-414.5			UNCLASSIFIED	137.5	866.5	

---

MAPID: 03335684000C    VERSION: 2

PROJECT: NCRDS94

COUNTY: CRAWFORD    TWP/RNG: 7N 11W    SECTION: 9    QUARTERS/FOOTAGES: 610' N line, 160' E line of NE NW NE

QUADRANGLE: HUTSONVILLE

LONGITUDE: -87.635122

GEOLOGIST: HOKE

CONFIDENTIAL: N

LATITUDE: 39.071509

DATE COLLECTED: 11 / 27 / 1984

SURFACE ELEVATION (FT.): 452.0

LOGGED (FT.): 1004.0

LOG TYPE: Drillers Log

SOURCE: EXXON    EIBI-8

WELL TYPE: Coal Test

COMMENT: GAMMA; DENSITY; RESIST. LOGS AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
452.0			UNCONSOLIDATED	1.0	0.0	SOIL
451.0			CLAY	9.0	1.0	
442.0			SANDSTONE	106.0	10.0	
336.0			BLACK SHALE	3.0	116.0	
333.0			COAL	1.5	119.0	
331.5			DARK GRAY SHALE	6.5	120.5	
325.0			COAL	1.0	127.0	
324.0			UNDERCLAY	3.0	128.0	
321.0			GRAY SHALE	14.0	131.0	
307.0			GRAY SHALE	15.0	145.0	
292.0			LIMESTONE	2.0	160.0	
290.0			UNDERCLAY	3.0	162.0	
287.0			SANDSTONE	20.0	165.0	
267.0			DARK GRAY SHALE	25.0	185.0	
242.0			BLACK SHALE	3.5	210.0	
238.5			COAL	1.0	213.5	
237.5			UNDERCLAY	5.5	214.5	
232.0			GRAY SHALE	20.0	220.0	
212.0			DARK GRAY SHALE	44.0	240.0	
168.0			BLACK SHALE	3.5	284.0	
164.5			COAL	1.5	287.5	
163.0			UNDERCLAY	3.0	289.0	
160.0			GRAY SILTSTONE	10.0	292.0	
150.0			LIMESTONE	6.0	302.0	
144.0			SHALE	16.0	308.0	
128.0			SANDSTONE	11.0	324.0	
117.0			SANDY SILTSTONE	10.0	335.0	
107.0			SANDSTONE	15.0	345.0	
92.0			SANDSTONE	15.0	360.0	
77.0			GRAY SILTSTONE	15.0	375.0	
62.0			DARK GRAY SHALE	12.0	390.0	
50.0	CARBONDALE	DANVILLE	COAL	3.5	402.0	
46.5	CARBONDALE		UNDERCLAY	4.5	405.5	
42.0	CARBONDALE		SANDSTONE	5.0	410.0	
37.0	CARBONDALE		GRAY SHALE	8.0	415.0	
29.0	CARBONDALE		GRAY SHALE	6.6	423.0	
22.4	CARBONDALE		DARK GRAY SHALE	5.6	429.6	
16.9	CARBONDALE		DARK GRAY SHALE	0.3	435.1	
16.6	CARBONDALE	JAMESTOWN	COAL	3.8	435.4	

12.8	CARBONDALE		DARK GRAY SHALE	0.5	439.2	
12.3	CARBONDALE		LIMESTONE	1.8	439.7	
10.5	CARBONDALE		BLACK SHALE	1.2	441.5	
9.3	CARBONDALE		GRAY SHALE	4.7	442.7	
4.6	CARBONDALE		BLACK SHALE	0.2	447.4	
4.5	CARBONDALE		DARK GRAY SHALE	0.1	447.5	
4.4	CARBONDALE	HERRIN	COAL	1.1	447.6	
3.3	CARBONDALE		UNDERCLAY	0.2	448.7	
3.1	CARBONDALE		UNDERCLAY	1.7	448.9	
1.4	CARBONDALE		UNDERCLAY	2.4	450.6	
-1.0	CARBONDALE		UNDERCLAY	1.5	453.0	
-2.5	CARBONDALE		SANDSTONE	2.0	454.5	
-4.5	CARBONDALE		UNDERCLAY	1.6	456.5	
-6.0	CARBONDALE		SANDSTONE	4.2	458.0	
-10.2	CARBONDALE		GRAY SILTSTONE	0.9	462.2	
-11.1	CARBONDALE		GRAY SILTSTONE	8.9	463.1	
-20.0	CARBONDALE		DARK GRAY SHALE	3.3	472.0	
-23.3	CARBONDALE		BLACK SHALE	1.6	475.3	
-24.9	CARBONDALE		DARK GRAY SHALE	1.0	476.9	
-25.9	CARBONDALE		BLACK SHALE	3.5	477.9	
-29.4	CARBONDALE		BLACK SHALE	0.8	481.4	
-30.2	CARBONDALE		BLACK SHALE	0.2	482.2	
-30.4	CARBONDALE	BRIAR HILL	COAL	2.7	482.4	
-33.0	CARBONDALE		SANDSTONE	0.6	485.0	
-33.6	CARBONDALE		SANDSTONE	5.5	485.6	
-39.1	CARBONDALE		DARK GRAY SHALE	0.7	491.1	
-39.8	CARBONDALE		LIMESTONE	0.9	491.8	
-40.7	CARBONDALE		DARK GRAY SHALE	0.3	492.7	
-41.0	CARBONDALE		LIMESTONE	3.2	493.0	
-44.2	CARBONDALE		DARK GRAY SHALE	0.2	496.2	
-44.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	496.5	
-44.9	CARBONDALE	SPRINGFIELD	COAL	3.1	496.9	
-48.0	CARBONDALE		UNDERCLAY	0.5	500.0	
-48.5	CARBONDALE		UNDERCLAY	1.5	500.5	
-50.0	CARBONDALE		UNDERCLAY	3.6	502.0	
-53.6	CARBONDALE		UNCLASSIFIED	0.9	505.6	CORE LOSS
-54.5	CARBONDALE		UNDERCLAY	1.5	506.5	
-56.0	CARBONDALE		SANDSTONE	17.0	508.0	
-73.0	CARBONDALE		SANDSTONE	20.0	525.0	
-93.0	CARBONDALE		BLACK SHALE	5.0	545.0	BK. COALY SH
-98.0	CARBONDALE		DARK GRAY SHALE	10.0	550.0	
-108.0	CARBONDALE		DARK GRAY SHALE	40.0	560.0	
-148.0	CARBONDALE		BLACK SHALE	2.0	600.0	
-150.0	CARBONDALE	HANOVER	LIMESTONE	1.0	602.0	
-151.0	CARBONDALE	EXCELLO	BLACK SHALE	5.5	603.0	
-156.5	CARBONDALE	HOUCHIN CREEK	COAL	2.5	608.5	
-159.0	CARBONDALE		DARK GRAY SHALE	11.0	611.0	
-170.0	CARBONDALE		SANDSTONE	26.0	622.0	



-196.0	CARBONDALE		SANDSTONE	14.0	648.0	
-210.0	CARBONDALE		BLACK SHALE	8.0	662.0	
-218.0	CARBONDALE		SANDSTONE	10.0	670.0	
-228.0	CARBONDALE		SHALE	11.0	680.0	
-239.0	CARBONDALE		SANDSTONE	4.0	691.0	
-243.0	CARBONDALE		DARK GRAY SHALE	5.0	695.0	
-248.0	CARBONDALE	COLCHESTER	COAL	7.0	700.0	
-255.0			UNDERCLAY	5.0	707.0	
-260.0			GRAY SHALE	15.0	712.0	
-275.0			LIMESTONE	2.0	727.0	
-277.0			BLACK SHALE	2.0	729.0	
-279.0			SANDSTONE	11.0	731.0	
-290.0			SANDSTONE	21.0	742.0	
-311.0			SANDSTONE	14.7	763.0	
-325.7			UNCLASSIFIED	0.3	777.7	CORE LOSS
-326.0			SANDSTONE	9.0	778.0	
-335.0			COAL	2.0	787.0	
-337.0			DARK GRAY SHALE	9.0	789.0	
-346.0			SANDSTONE	9.0	798.0	
-355.0			DARK GRAY SHALE	4.0	807.0	
-359.0			COAL	2.0	811.0	
-361.0			GRAY SILTSTONE	12.0	813.0	
-373.0			DARK GRAY SHALE	6.0	825.0	
-379.0			SANDSTONE	10.0	831.0	
-389.0			DARK GRAY SHALE	10.0	841.0	
-399.0			SANDSTONE	13.5	851.0	
-412.5			COAL	1.5	864.5	
-414.0			UNDERCLAY	3.0	866.0	
-417.0			SANDSTONE	3.0	869.0	
-420.0			DARK GRAY SHALE	26.0	872.0	
-446.0			SANDSTONE	22.0	898.0	
-468.0			BLACK SHALE	5.0	920.0	
-473.0			DARK GRAY SHALE	25.0	925.0	
-498.0			DARK GRAY SHALE	15.0	950.0	
-513.0			BLACK SHALE	9.0	965.0	
-522.0			SANDSTONE	13.0	974.0	
-535.0			SANDSTONE	17.0	987.0	

---

MAPID: 03300294000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 11W

SECTION: 12

QUARTERS/FOOTAGES: SW SE SW

QUADRANGLE: MEROM

LONGITUDE: -87.586466

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.058286

DATE COLLECTED:

SURFACE ELEVATION (FT.): 436.0

LOGGED (FT.): 634.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
187.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	249.0
91.0	CARBONDALE	DANVILLE	COAL	3.5	345.0
46.0	CARBONDALE	JAMESTOWN	COAL	-	390.0
38.0	CARBONDALE	HERRIN	COAL	-	398.0
-14.0	CARBONDALE	SPRINGFIELD	COAL	2.0	450.0
-109.0	CARBONDALE	HOUCHIN CREEK	COAL	-	545.0
-198.0	CARBONDALE	COLCHESTER	COAL	-	634.0

MAPID: 03301205000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 11W

SECTION: 13

QUARTERS/FOOTAGES: NW NE NW

QUADRANGLE: MEROM

LONGITUDE: -87.586469

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.056594

DATE COLLECTED:

SURFACE ELEVATION (FT.): 434.0

LOGGED (FT.): 622.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
205.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	229.0
118.0	CARBONDALE	DANVILLE	COAL	3.5	316.0
70.0	CARBONDALE	JAMESTOWN	COAL	-	364.0
60.0	CARBONDALE	HERRIN	COAL	-	374.0
15.0	CARBONDALE	SPRINGFIELD	COAL	-	419.0
-69.0	CARBONDALE	HOUCHIN CREEK	COAL	-	503.0
-159.0	CARBONDALE	COLCHESTER	COAL	-	593.0
-183.0	SPOON	SEELYVILLE	COAL	5.0	617.0

MAPID: 03302471000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 11W SECTION: 14 QUARTERS/FOOTAGES: 1279' N line, 789' W line of SE

QUADRANGLE: MEROM LONGITUDE: -87.5992 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.046964 DATE COLLECTED:

SURFACE ELEVATION (FT.): 442.0 LOGGED (FT.): 703.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
150.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	292.0
57.0	CARBONDALE	DANVILLE	COAL	4.0	385.0
7.0	CARBONDALE	JAMESTOWN	COAL	-	435.0
-2.0	CARBONDALE	HERRIN	COAL	1.5	444.0
-52.0	CARBONDALE	SPRINGFIELD	COAL	3.5	494.0
-170.0	CARBONDALE	HOUCHIN CREEK	COAL	-	612.0
-261.0	SPOON	SEELYVILLE	COAL	-	703.0

MAPID: 03390107000C VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD TWP/RNG: 7N 11W SECTION: 14 QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SE

QUADRANGLE: MEROM LONGITUDE: -87.602101 GEOLOGIST: LAWSON

CONFIDENTIAL: N LATITUDE: 39.043245 DATE COLLECTED: 5 / 13 / 1967

SURFACE ELEVATION (FT.): 443.0 LOGGED (FT.): 600.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 8 WELL TYPE: Coal Test

COMMENT: CRAWFORD CO.BOX 33 CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
443.0	PLEISTOCENE		UNCONSOLIDATED	15.0	0.0
428.0			ROCK	3.0	15.0
425.0			COAL	1.0	18.0
424.0			ROCK	81.0	19.0
343.0			COAL	2.8	100.0
340.2			ROCK	279.3	102.8
61.0	CARBONDALE	DANVILLE	COAL	1.9	382.0
59.1	CARBONDALE		ROCK	42.1	383.9
17.0	CARBONDALE	JAMESTOWN	COAL	2.7	426.0
14.3	CARBONDALE		ROCK	8.8	428.7
5.5	CARBONDALE	HERRIN	COAL	1.0	437.5
4.5	CARBONDALE		ROCK	34.5	438.5
-30.0	CARBONDALE	BRIAR HILL	COAL	2.5	473.0
-32.5	CARBONDALE		ROCK	10.5	475.5
-43.0	CARBONDALE	SPRINGFIELD	COAL	3.0	486.0
-46.0	CARBONDALE		ROCK	111.0	489.0

MAPID: 03300109000C    VERSION: 1

PROJECT: NCRDS87

COUNTY: CRAWFORD    TWP/RNG: 7N 11W    SECTION: 18    QUARTERS/FOOTAGES: SE NE

QUADRANGLE: HUTSONVILLE    LONGITUDE: -87.669945    GEOLOGIST: WEIBEL

CONFIDENTIAL: N    LATITUDE: 39.053818    DATE COLLECTED:

SURFACE ELEVATION (FT.): 470.0    LOGGED (FT.): 872.0    LOG TYPE: Drillers Log

SOURCE: PEABODY COAL CO.    WELL TYPE: Coal Test

COMMENT: LOCATION & ELEVATION IMPRECISE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
470.0			UNCONSOLIDATED	62.0	0.0	
408.0			LIMESTONE	1.0	62.0	
407.0			SHALE	16.0	63.0	
391.0			BLACK SHALE	3.0	79.0	
388.0			COAL	1.8	82.0	
386.2			SHALE	38.3	83.8	
348.0			LIMESTONE	1.0	122.0	
347.0			BLACK SHALE	1.8	123.0	
345.2			COAL	0.2	124.8	
345.0			SHALE	36.0	125.0	
309.0			COAL	0.5	161.0	
308.5			SHALE	11.5	161.5	
297.0			COAL	0.5	173.0	
296.5			SHALE	5.0	173.5	
291.5			SANDSTONE	11.5	178.5	
280.0			SHALE	69.0	190.0	
211.0			BLACK SHALE	3.0	259.0	
208.0			COAL	1.5	262.0	
206.5			SHALE	53.5	263.5	
153.0			DARK SHALE	12.0	317.0	
141.0			COAL	0.4	329.0	
140.6			UNDERCLAY	4.6	329.4	
136.0			SHALE	11.0	334.0	
125.0	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	345.0	
123.0			SHALE	3.0	347.0	
120.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	350.0	
114.0			SHALE	19.0	356.0	
95.0			DARK SHALE	8.0	375.0	
87.0			COAL	0.7	383.0	
86.3			SHALE	3.3	383.7	
83.0			SANDSTONE	36.0	387.0	
47.0			SHALE	24.5	423.0	
22.5	CARBONDALE	DANVILLE	COAL	3.3	447.5	
19.2	CARBONDALE		SHALE	6.2	450.8	
13.0	CARBONDALE		SANDSTONE	12.0	457.0	
1.0	CARBONDALE		SHALE	15.4	469.0	
-14.4	CARBONDALE	JAMESTOWN	COAL	3.8	484.4	UNCERTAIN CORRELATION
-18.3	CARBONDALE		SHALE	0.8	488.3	
-19.0	CARBONDALE		LIMESTONE	2.0	489.0	

-21.0	CARBONDALE		DARK SHALE	7.0	491.0	
-28.0	CARBONDALE	HERRIN	COAL	0.8	498.0	
-28.8	CARBONDALE		SHALE	5.2	498.8	
-34.0	CARBONDALE		LIMESTONE	2.0	504.0	
-36.0	CARBONDALE		DARK SHALE	1.0	506.0	
-37.0	CARBONDALE		SANDSTONE	14.0	507.0	
-51.0	CARBONDALE		GRAY SHALE	8.0	521.0	
-59.0	CARBONDALE		DARK SHALE	6.0	529.0	
-65.0	CARBONDALE		BLACK SHALE	2.0	535.0	
-67.0	CARBONDALE	BRIAR HILL	COAL	1.4	537.0	UNCERTAIN CORRELATION
-68.4	CARBONDALE		SHALE	2.6	538.4	
-71.0	CARBONDALE		SANDSTONE	4.0	541.0	
-75.0	CARBONDALE		SHALE	4.0	545.0	
-79.0	CARBONDALE		DARK SHALE	1.0	549.0	
-80.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	550.0	
-81.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	551.0	
-82.5	CARBONDALE	SPRINGFIELD	COAL	3.0	552.5	
-85.5	CARBONDALE		SHALE	99.5	555.5	
-185.0	CARBONDALE	EXCELLO	BLACK SHALE	5.0	655.0	
-190.0	CARBONDALE	HOUCHIN CREEK	COAL WITH SHALE PARTINGS	1.0	660.0	
-191.0	CARBONDALE		SHALE	9.0	661.0	
-200.0	CARBONDALE		SANDSTONE	47.0	670.0	
-247.0	CARBONDALE		SHALE	1.0	717.0	
-248.0	CARBONDALE		SANDSTONE	14.0	718.0	
-262.0	CARBONDALE		DARK SHALE	2.0	732.0	
-264.0	CARBONDALE		BLACK SHALE	12.0	734.0	
-276.0	CARBONDALE		COAL	1.8	746.0	
-277.8	CARBONDALE		SHALE	14.3	747.8	
-292.0	CARBONDALE		SANDSTONE	5.0	762.0	
-297.0	CARBONDALE		SHALE	9.0	767.0	
-306.0	CARBONDALE		COAL	7.0	776.0	
-313.0	CARBONDALE		SHALE	26.0	783.0	
-339.0	CARBONDALE	OAK GROVE	LIMESTONE	1.0	809.0	UNCERTAIN CORRELATION
-340.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	810.0	UNCERTAIN CORRELATION
-342.0	CARBONDALE	COLCHESTER	COAL	0.8	812.0	UNCERTAIN CORRELATION
-342.8			UNDERCLAY	8.3	812.8	
-351.0			SHALE	6.0	821.0	
-357.0			BLACK SHALE	6.0	827.0	
-363.0			COAL	3.0	833.0	
-366.0			SHALE	2.0	836.0	
-368.0			SANDSTONE	16.0	838.0	
-384.0			COAL	2.0	854.0	
-386.0			SHALE	10.0	856.0	
-396.0			LIMESTONE	4.0	866.0	
-400.0			SHALE	2.0	870.0	

MAPID: 03300109000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 11W SECTION: 18 QUARTERS/FOOTAGES: SE NE

QUADRANGLE: HUTSONVILLE LONGITUDE: -87.669945 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.053818 DATE COLLECTED:

SURFACE ELEVATION (FT.): 450.0 LOGGED (FT.): 783.0 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Coal Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
105.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	345.0
2.0	CARBONDALE	DANVILLE	COAL	3.3	448.0
-34.0	CARBONDALE	JAMESTOWN	COAL	3.8	484.0
-48.0	CARBONDALE	HERRIN	COAL	0.8	498.0
-103.0	CARBONDALE	SPRINGFIELD	COAL	3.0	553.0
-210.0	CARBONDALE	HOUCHIN CREEK	COAL	0.8	660.0
-296.0	CARBONDALE	COLCHESTER	COAL	1.8	746.0
-326.0	SPOON	SEELYVILLE	COAL	7.0	776.0

MAPID: 03300480000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 11W SECTION: 18 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: HUTSONVILLE LONGITUDE: -87.675858 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.051091 DATE COLLECTED:

SURFACE ELEVATION (FT.): 477.0 LOGGED (FT.): 774.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
129.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	348.0
28.0	CARBONDALE	DANVILLE	COAL	-	449.0
-9.0	CARBONDALE	JAMESTOWN	COAL	-	486.0
-18.0	CARBONDALE	HERRIN	COAL	-	495.0
-74.0	CARBONDALE	SPRINGFIELD	COAL	-	551.0
-182.0	CARBONDALE	HOUCHIN CREEK	COAL	-	659.0
-265.0	CARBONDALE	COLCHESTER	COAL	-	742.0
-297.0	SPOON	SEELYVILLE	COAL	-	774.0

MAPID: 03335685000C    VERSION: 1

PROJECT: NCRDS99

COUNTY: CRAWFORD    TWP/RNG: 7N 11W    SECTION: 18    QUARTERS/FOOTAGES: 590' S line, 105' W line

QUADRANGLE: HUTSONVILLE    LONGITUDE: -87.684497    GEOLOGIST: J MCBETH

CONFIDENTIAL: N    LATITUDE: 39.046314    DATE COLLECTED: 12 / 19 / 1984

SURFACE ELEVATION (FT.): 484.0    LOGGED (FT.): 924.0    LOG TYPE: Multiple log types

SOURCE: EXXON    EIBI-10    WELL TYPE: Coal Test

COMMENT: EXXON COAL QUALITY DATA-GEOPHYS. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
484.0			UNCLASSIFIED	253.5	0.0	
230.5	MODESTO		SHALE	2.3	253.5	LOG TRACE SUGGEST CARBONACEOUS
228.2	MODESTO	NEW HAVEN	COAL	1.3	255.8	
227.0	MODESTO		ROCK	61.3	257.0	
165.7	MODESTO		SHALE	1.0	318.3	
164.7	MODESTO		ROCK	3.5	319.3	
161.2	MODESTO	CHAPEL	COAL	1.8	322.8	
159.5	MODESTO		ROCK	16.5	324.5	
143.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.8	341.0	
139.2	MODESTO		ROCK	37.0	344.8	
102.2	MODESTO		COAL	1.5	381.8	
100.7	MODESTO		ROCK	61.8	383.3	
39.0	CARBONDALE	DANVILLE	COAL	2.5	445.0	
36.5	CARBONDALE		ROCK	33.5	447.5	
3.0	CARBONDALE	JAMESTOWN	COAL	4.0	481.0	
-1.0	CARBONDALE		ROCK	10.5	485.0	
-11.5	CARBONDALE	HERRIN	COAL	2.5	495.5	
-14.0	CARBONDALE		ROCK	26.5	498.0	
-40.5	CARBONDALE		SANDSTONE	10.5	524.5	
-51.0	CARBONDALE		ROCK	10.5	535.0	
-61.5	CARBONDALE	ST. DAVID	LIMESTONE	3.3	545.5	
-64.8	CARBONDALE	TURNER MINE	SHALE	1.3	548.8	LOG TRACE SUGGEST CARBONACEOUS
-66.0	CARBONDALE	SPRINGFIELD	COAL	2.0	550.0	
-68.0	CARBONDALE		ROCK	10.5	552.0	
-78.5	CARBONDALE		SANDSTONE	25.5	562.5	
-104.0	CARBONDALE		ROCK	53.5	588.0	
-157.5	CARBONDALE	EXCELLO	SHALE	1.5	641.5	LOG TARCE SUGGEST CARBONACEOUS
-159.0	CARBONDALE	HOUCHIN CREEK	COAL	3.3	643.0	
-162.3	CARBONDALE		ROCK	9.8	646.3	
-172.0	CARBONDALE	PLEASANTVIEW	SANDSTONE	10.0	656.0	
-182.0	CARBONDALE	PLEASANTVIEW	ROCK	3.5	666.0	
-185.5	CARBONDALE	PLEASANTVIEW	SANDSTONE	34.0	669.5	
-219.5	CARBONDALE	PLEASANTVIEW	ROCK	3.5	703.5	
-223.0	CARBONDALE	PLEASANTVIEW	SANDSTONE	32.0	707.0	
-255.0	CARBONDALE		ROCK	10.0	739.0	
-265.0	CARBONDALE	MECCA QUARRY	SHALE	1.5	749.0	LOG TRACE SUGGEST CARBONACEOUS
-266.5	CARBONDALE	COLCHESTER	COAL	2.8	750.5	
-269.3	CARBONDALE		ROCK	29.3	753.3	
-298.5	CARBONDALE	SEELYVILLE	COAL	7.8	782.5	

-306.3	UNCLASSIFIED	27.8	790.3	
-334.0	SHALE	1.3	818.0	LOG TRACE SUGGEST CARBONACEOUS
-335.3	UNCLASSIFIED	21.8	819.3	COAL AT 821?
-357.0	COAL	2.0	841.0	
-359.0	SHALE	4.0	843.0	LOG TRACE SUGGESTS CARBONACEOUS
-363.0	UNCLASSIFIED	8.3	847.0	
-371.3	SHALE	0.8	855.3	LOG TRACE SUGGEST CARBONACEOUS
-372.0	COAL	1.0	856.0	
-373.0	UNCLASSIFIED	12.8	857.0	
-385.8	COAL	1.3	869.8	
-387.0	UNCLASSIFIED	4.0	871.0	
-391.0	SHALE	0.5	875.0	LOG TRACE SUGGEST CARBONACEOUS
-391.5	COAL	1.8	875.5	
-393.3	UNCLASSIFIED	46.8	877.3	

---



MAPID: 03335685000C    VERSION: 2

PROJECT: NCRDS94

COUNTY: CRAWFORD    TWP/RNG: 7N 11W    SECTION: 18    QUARTERS/FOOTAGES: 590' S line, 105' W line

QUADRANGLE: HUTSONVILLE    LONGITUDE: -87.684497    GEOLOGIST: HOKE

CONFIDENTIAL: N    LATITUDE: 39.046314    DATE COLLECTED: 12 / 14 / 1984

SURFACE ELEVATION (FT.): 484.0    LOGGED (FT.): 924.0    LOG TYPE: Drillers Log

SOURCE: EXXON    EIBI-10    WELL TYPE: Coal Test

COMMENT: EASTING CROSSED OUT ON LOG, NORTHING OK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
484.0			UNCONSOLIDATED	2.0	0.0	SOIL
482.0			CLAY	13.0	2.0	
469.0			CLAY	39.5	15.0	
429.5			LIMESTONE	2.5	54.5	
427.0			SANDY SHALE	8.0	57.0	
419.0			DARK GRAY SHALE	10.0	65.0	
409.0			LIMESTONE	4.0	75.0	
405.0			BLACK SHALE	3.0	79.0	
402.0			COAL	2.0	82.0	
400.0			UNDERCLAY	6.0	84.0	
394.0			SANDSTONE	4.0	90.0	
390.0			SHALE	13.0	94.0	
377.0			DARK GRAY SHALE	10.0	107.0	
367.0			LIMESTONE	4.0	117.0	
363.0			BLACK SHALE	3.0	121.0	
360.0			UNDERCLAY	3.0	124.0	
357.0			SHALE	23.0	127.0	
334.0			BLACK SHALE	5.0	150.0	
329.0			COAL	1.0	155.0	
328.0			SANDSTONE	5.0	156.0	
323.0			DARK GRAY SHALE	8.0	161.0	
315.0			UNDERCLAY	6.0	169.0	
309.0			GRAY SILTSTONE	5.0	175.0	
304.0			DARK GRAY SHALE	24.0	180.0	
280.0			GRAY SILTSTONE	16.0	204.0	
264.0			DARK GRAY SHALE	32.0	220.0	
232.0			BLACK SHALE	3.0	252.0	
229.0			COAL	1.0	255.0	
228.0			UNDERCLAY	3.0	256.0	
225.0			GRAY SILTSTONE	16.0	259.0	
209.0			DARK GRAY SHALE	10.0	275.0	
199.0			DARK GRAY SHALE	25.0	285.0	
174.0			DARK GRAY SHALE	8.0	310.0	
166.0			BLACK SHALE	5.0	318.0	
161.0			COAL	1.0	323.0	
160.0			UNDERCLAY	3.0	324.0	
157.0			SANDSTONE	13.0	327.0	
144.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	340.0	
139.0	MODESTO		UNDERCLAY	7.0	345.0	

132.0	MODESTO		GRAY SILTSTONE	3.0	352.0	
129.0	MODESTO		GRAY SHALE	10.0	355.0	
119.0	MODESTO		SANDSTONE	5.0	365.0	
114.0	MODESTO		DARK GRAY SHALE	11.5	370.0	
102.5	MODESTO		COAL	1.5	381.5	
101.0	MODESTO		GRAY SHALE	19.0	383.0	
82.0	MODESTO		GRAY SILTSTONE	8.0	402.0	
74.0	MODESTO		GRAY SILTSTONE	13.0	410.0	
61.0	MODESTO		GRAY SILTSTONE	19.8	423.0	
41.2	MODESTO		DARK GRAY SHALE	0.1	442.8	
41.1	CARBONDALE	DANVILLE	COAL	3.4	442.9	
37.8	CARBONDALE		UNDERCLAY	0.7	446.2	
37.1	CARBONDALE		UNDERCLAY	1.2	446.9	
35.9	CARBONDALE		UNDERCLAY	7.9	448.1	
28.0	CARBONDALE		GRAY SHALE	2.0	456.0	
26.0	CARBONDALE		SANDSTONE	1.0	458.0	
25.0	CARBONDALE		GRAY SHALE	1.0	459.0	
24.0	CARBONDALE		SANDSTONE	5.3	460.0	
18.7	CARBONDALE		GRAY SILTSTONE	4.5	465.3	
14.2	CARBONDALE		DARK GRAY SHALE	3.8	469.8	
10.5	CARBONDALE		DARK GRAY SHALE	4.5	473.5	
6.0	CARBONDALE		DARK GRAY SHALE	0.7	478.0	
5.3	CARBONDALE		DARK GRAY SHALE	0.2	478.7	
5.1	CARBONDALE	JAMESTOWN	COAL	3.8	478.9	
1.3	CARBONDALE		UNDERCLAY	0.0	482.7	
1.3	CARBONDALE		LIMESTONE	2.8	482.7	
-1.5	CARBONDALE		BLACK SHALE	4.1	485.5	
-5.6	CARBONDALE		BLACK SHALE	2.8	489.6	
-8.4	CARBONDALE		DARK GRAY SHALE	1.2	492.4	
-9.6	CARBONDALE	HERRIN	COAL	2.0	493.6	
-11.6	CARBONDALE		UNDERCLAY	0.5	495.6	
-12.1	CARBONDALE		UNDERCLAY	2.1	496.1	
-14.1	CARBONDALE		UNDERCLAY	2.9	498.1	
-17.0	CARBONDALE		SANDSTONE	0.8	501.0	
-17.8	CARBONDALE		UNDERCLAY	0.8	501.8	
-18.6	CARBONDALE		UNCLASSIFIED	2.4	502.6	CORE LOSS
-21.0	CARBONDALE		SANDSTONE	8.0	505.0	
-29.0	CARBONDALE		DARK GRAY SHALE	11.0	513.0	
-40.0	CARBONDALE		SANDSTONE	12.0	524.0	
-52.0	CARBONDALE		DARK GRAY SHALE	6.0	536.0	
-58.0	CARBONDALE		BLACK SHALE	3.0	542.0	
-61.0	CARBONDALE	ST. DAVID	LIMESTONE	3.5	545.0	
-64.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	548.5	
-65.0	CARBONDALE	SPRINGFIELD	COAL	3.0	549.0	
-68.0	CARBONDALE		UNDERCLAY	4.0	552.0	
-72.0	CARBONDALE		GRAY SILTSTONE	6.0	556.0	
-78.0	CARBONDALE		SANDSTONE	23.0	562.0	
-101.0	CARBONDALE		DARK GRAY SHALE	55.0	585.0	

-156.0	CARBONDALE	EXCELLO	BLACK SHALE	5.0	640.0	
-161.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	645.0	
-162.0	CARBONDALE		GRAY SILTSTONE	10.0	646.0	
-172.0	CARBONDALE		SANDSTONE	10.0	656.0	
-182.0	CARBONDALE		DARK GRAY SHALE	3.0	666.0	
-185.0	CARBONDALE		SANDSTONE	34.0	669.0	
-219.0	CARBONDALE		DARK GRAY SHALE	1.0	703.0	
-220.0	CARBONDALE		GRAY SILTSTONE	0.7	704.0	
-220.7	CARBONDALE		SANDSTONE	2.9	704.7	
-223.5	CARBONDALE		SANDSTONE	9.0	707.5	
-232.4	CARBONDALE		SANDSTONE	21.8	716.4	
-254.2	CARBONDALE		CONGLOMERATE	0.6	738.2	
-254.8	CARBONDALE		DARK GRAY SHALE	1.5	738.8	
-256.3	CARBONDALE		DARK GRAY SHALE	1.3	740.3	
-257.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	6.2	741.5	
-263.7	CARBONDALE	MECCA QUARRY	UNCLASSIFIED	1.3	747.7	CORE LOSS
-265.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.1	749.0	
-266.1	CARBONDALE	COLCHESTER	COAL	0.9	750.1	
-266.9	SPOON		UNDERCLAY	0.5	750.9	
-267.4	SPOON		UNDERCLAY	1.1	751.4	
-268.5	SPOON		UNDERCLAY	1.9	752.5	
-270.4	SPOON		SANDSTONE	1.8	754.4	
-272.2	SPOON		SANDSTONE	2.0	756.2	
-274.2	SPOON		SANDSTONE	1.0	758.2	
-275.2	SPOON		GRAY SILTSTONE	0.5	759.2	
-275.7	SPOON		GRAY SHALE	0.7	759.7	
-276.3	SPOON		SANDSTONE	1.0	760.3	
-277.3	SPOON		GRAY SHALE	0.6	761.3	
-277.8	SPOON		DARK GRAY SHALE	1.3	761.8	
-279.2	SPOON		SANDSTONE	2.9	763.2	
-282.1	SPOON		SANDSTONE	3.1	766.1	
-285.1	SPOON		GRAY SILTSTONE	1.2	769.1	
-286.3	SPOON		SANDSTONE	1.0	770.3	
-287.2	SPOON		SANDSTONE	1.1	771.2	
-288.3	SPOON		GRAY SILTSTONE	3.6	772.3	
-291.8	SPOON		DARK GRAY SHALE	2.5	775.8	
-294.3	SPOON		DARK GRAY SHALE	1.6	778.3	
-295.9	SPOON		DARK GRAY SHALE	0.1	779.9	DGY SH W/ PYRITE
-296.0	SPOON	SEELYVILLE	COAL	8.1	780.0	
-304.1			UNDERCLAY	0.3	788.1	
-304.3			UNDERCLAY	0.3	788.3	
-304.7			UNDERCLAY	1.5	788.7	
-306.1			LIMESTONE	0.6	790.1	
-306.7			UNDERCLAY	0.3	790.7	
-306.9			UNDERCLAY	1.6	790.9	
-308.5			UNCLASSIFIED	0.5	792.5	CORE LOSS
-309.0			UNDERCLAY	4.0	793.0	
-313.0			SANDSTONE	9.0	797.0	

-322.0	DARK GRAY SHALE	11.5	806.0
-333.5	LIMESTONE	1.5	817.5
-335.0	BLACK SHALE	2.0	819.0
-337.0	COAL	1.0	821.0
-338.0	GRAY SILTSTONE	13.0	822.0
-351.0	BLACK SHALE	6.0	835.0
-357.0	COAL	2.0	841.0
-359.0	BLACK SHALE	7.0	843.0
-366.0	SANDSTONE	5.0	850.0
-371.0	BLACK SHALE	0.5	855.0
-371.5	COAL	1.5	855.5
-373.0	DARK GRAY SHALE	13.0	857.0
-386.0	COAL	1.0	870.0
-387.0	SANDSTONE	3.0	871.0
-390.0	BLACK SHALE	2.0	874.0
-392.0	COAL	1.0	876.0
-393.0	DARK GRAY SHALE	19.0	877.0
-412.0	DARK GRAY SHALE	11.0	896.0
-423.0	BLACK SHALE	5.0	907.0
-428.0	SANDSTONE	12.0	912.0

---

MAPID: 03304396000C    VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD    TWP/RNG: 7N 11W    SECTION: 20    QUARTERS/FOOTAGES: NW SW NW SE

QUADRANGLE: HUTSONVILLE    LONGITUDE: -87.657722    GEOLOGIST: UITEMP

CONFIDENTIAL: N    LATITUDE: 39.034683    DATE COLLECTED: 7 / 10 / 1972

SURFACE ELEVATION (FT.): 455.0    LOGGED (FT.): 776.0    LOG TYPE: Drillers Log

SOURCE: MINERAL RESOURCES, INC    5    WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
42.2	CARBONDALE	DANVILLE	COAL	1.9	412.8	
40.2	CARBONDALE		UNDERCLAY	1.5	414.8	GRAY
38.7	CARBONDALE		GRAY SHALE	0.6	416.3	
38.2	CARBONDALE		GRAY SHALE	0.8	416.8	
37.3	CARBONDALE		GRAY SHALE	0.6	417.7	
36.7	CARBONDALE		NO RECORD	1.8	418.3	LOSS
35.0	CARBONDALE		SILTSTONE	11.0	420.0	
24.0	CARBONDALE		GRAY SHALE	9.0	431.0	
15.0	CARBONDALE		GRAY SHALE	8.0	440.0	
7.0	CARBONDALE		SHALY LIMESTONE	0.3	448.0	
6.7	CARBONDALE	JAMESTOWN	COAL	3.7	448.3	
3.0	CARBONDALE		UNDERCLAY	0.4	452.0	GRAY
2.6	CARBONDALE		SHALY LIMESTONE	1.9	452.4	GRAY
0.7	CARBONDALE		GRAY SHALE	1.8	454.3	
-1.1	CARBONDALE		GRAY SHALE	5.4	456.1	
-6.5	CARBONDALE	HERRIN	COAL	1.2	461.5	#6
-7.7	CARBONDALE		UNDERCLAY	2.3	462.7	GRAY
-10.0	CARBONDALE		UNDERCLAY	2.5	465.0	SHALY:GY
-12.5	CARBONDALE		SANDY SILTSTONE	7.0	467.5	GRAY
-19.5	CARBONDALE		SHALE WITH LIMESTONE	9.5	474.5	
-29.0	CARBONDALE		GRAY SHALE	6.5	484.0	
-35.5	CARBONDALE		SHALY LIMESTONE	1.3	490.5	GRAY
-36.8	CARBONDALE		GRAY SHALE	8.0	491.8	
-44.8	CARBONDALE	BRIAR HILL	COAL	2.7	499.8	
-47.5	CARBONDALE		SANDSTONE	0.3	502.5	GRAY
-47.8	CARBONDALE		SHALY SANDSTONE	1.2	502.8	GRAY
-49.0	CARBONDALE		GRAY SHALE	6.0	504.0	
-55.0	CARBONDALE		GRAY SHALE	2.7	510.0	
-57.7	CARBONDALE		SHALY LIMESTONE	0.2	512.7	
-57.8	CARBONDALE	SPRINGFIELD	COAL	2.6	512.8	#5
-60.4	CARBONDALE		UNDERCLAY	3.7	515.4	GRAY
-64.1	CARBONDALE		UNCLASSIFIED	195.9	519.1	
-260.0	CARBONDALE		CONGLOMERATE	1.5	715.0	
-261.5	CARBONDALE		GRAY SHALE	4.3	716.5	
-265.8	CARBONDALE		GRAY SHALE	6.9	720.8	
-272.7	CARBONDALE		LIMESTONE	0.3	727.7	GRAY
-273.0	CARBONDALE		GRAY SHALE	2.5	728.0	
-275.5	CARBONDALE	COLCHESTER	COAL	0.5	730.5	#2
-276.0	CARBONDALE		UNDERCLAY	0.5	731.0	

-276.5			UNKNOWN	2.4	731.5	
-278.9	SPOON		CLAYSTONE & SILTSTONE	2.1	733.9	GRAY
-281.0	SPOON		SANDSTONE	10.0	736.0	
-291.0	SPOON		SANDY SILTSTONE	3.0	746.0	GRAY
-294.0	SPOON		GRAY SHALE	3.0	749.0	
-297.0	SPOON		SILTSTONE	4.3	752.0	GRAY
-301.3	SPOON		SILTSTONE	2.2	756.3	GRAY
-303.4	SPOON		GRAY SHALE	3.2	758.4	
-306.6	SPOON	SEELYVILLE	COAL	6.7	761.6	
-313.3	SPOON	SEELYVILLE	CALCAREOUS CLAYSTONE	6.7	768.3	GRAY
-319.9	SPOON	SEELYVILLE	NO RECORD	0.8	774.9	
-320.7	SPOON	SEELYVILLE	COAL	0.3	775.7	

**MAPID:** 03308476000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 7N 11W    **SECTION:** 25    **QUARTERS/FOOTAGES:** NE NE SW  
**QUADRANGLE:** MEROM    **LONGITUDE:** -87.585203    **GEOLOGIST:** C TREWORYG  
**CONFIDENTIAL:** N    **LATITUDE:** 39.020108    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 447.0    **LOGGED (FT.):** 651.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
202.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	245.0
111.0	CARBONDALE	DANVILLE	COAL	-	336.0
60.0	CARBONDALE	JAMESTOWN	COAL	-	387.0
47.0	CARBONDALE	HERRIN	COAL	-	400.0
2.0	CARBONDALE	SPRINGFIELD	COAL	-	445.0
-85.0	CARBONDALE	HOUCHIN CREEK	COAL	-	532.0
-164.0	CARBONDALE	COLCHESTER	COAL	-	611.0
-204.0	SPOON	SEELYVILLE	COAL	-	651.0

MAPID: 0330029000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 11W SECTION: 27 QUARTERS/FOOTAGES: NW NW NW  
 QUADRANGLE: HUTSONVILLE LONGITUDE: -87.62886 GEOLOGIST: C TREWORGY  
 CONFIDENTIAL: N LATITUDE: 39.028044 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 449.0 LOGGED (FT.): 733.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
139.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	310.0
40.0	CARBONDALE	DANVILLE	COAL	3.0	409.0
-3.0	CARBONDALE	JAMESTOWN	COAL	-	452.0
-15.0	CARBONDALE	HERRIN	COAL	-	464.0
-64.0	CARBONDALE	SPRINGFIELD	COAL	3.0	513.0
-155.0	CARBONDALE	HOUCHIN CREEK	COAL	-	604.0
-255.0	CARBONDALE	COLCHESTER	COAL	-	704.0
-279.0	SPOON	SEELYVILLE	COAL	5.0	728.0

MAPID: 03306619000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 11W SECTION: 28 QUARTERS/FOOTAGES: SW NW NE  
 QUADRANGLE: HUTSONVILLE LONGITUDE: -87.638329 GEOLOGIST: C TREWORGY  
 CONFIDENTIAL: N LATITUDE: 39.02645 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 448.0 LOGGED (FT.): 589.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
146.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	302.0
53.0	CARBONDALE	DANVILLE	COAL	-	395.0
10.0	CARBONDALE	JAMESTOWN	COAL	-	438.0
-2.0	CARBONDALE	HERRIN	COAL	-	450.0
-46.0	CARBONDALE	SPRINGFIELD	COAL	-	494.0
-141.0	CARBONDALE	HOUCHIN CREEK	COAL	-	589.0

MAPID: 03330290000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 7N 11W    SECTION: 34    QUARTERS/FOOTAGES: 330' N line, 380' W line of SW SW

QUADRANGLE: HUTSONVILLE    LONGITUDE: -87.629349    GEOLOGIST: C TREWORY

CONFIDENTIAL: N    LATITUDE: 39.002676    DATE COLLECTED:

SURFACE ELEVATION (FT.): 449.0    LOGGED (FT.): 664.0    LOG TYPE: Nuclear Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
173.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	276.0
79.0	CARBONDALE	DANVILLE	COAL	-	370.0
36.0	CARBONDALE	JAMESTOWN	COAL	-	413.0
23.0	CARBONDALE	HERRIN	COAL	-	426.0
-27.0	CARBONDALE	SPRINGFIELD	COAL	2.0	476.0
-133.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	582.0
-215.0	CARBONDALE	COLCHESTER	COAL	-	664.0

---



MAPID: 03335686000C    VERSION: 1

PROJECT: NCRDS99

COUNTY: CRAWFORD    TWP/RNG: 7N 11W    SECTION: 36    QUARTERS/FOOTAGES: NW NE SW

QUADRANGLE: MEROM    LONGITUDE: -87.587966    GEOLOGIST: J MCBETH

CONFIDENTIAL: N    LATITUDE: 39.005985    DATE COLLECTED: 12 / 18 / 1984

SURFACE ELEVATION (FT.): 430.0    LOGGED (FT.): 760.0    LOG TYPE: Multiple log types

SOURCE: EXXON    EIBI-11    WELL TYPE: Coal Test

COMMENT: EXXON COAL QUALITY DATA-GEOPHY LOGS.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
430.0			UNCLASSIFIED	104.0	0.0	
326.0	BOND	CARTHAGE	LIMESTONE	2.5	104.0	
323.5	MODESTO		ROCK	44.5	106.5	
279.0	MODESTO		SHALE	2.5	151.0	LOG TRACE SUGGEST CARBONACEOUS
276.5	MODESTO		ROCK	67.0	153.5	
209.5	MODESTO	CHAPEL	COAL	1.0	220.5	
208.5	MODESTO		ROCK	23.0	221.5	
185.5	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	244.5	
180.5	MODESTO		ROCK	27.0	249.5	
153.5	MODESTO		LIMESTONE	1.0	276.5	
152.5	MODESTO		SHALE	1.0	277.5	
151.5	MODESTO		COAL	1.0	278.5	
150.5	MODESTO		ROCK	55.5	279.5	
95.0	CARBONDALE	DANVILLE	COAL	2.5	335.0	
92.5	CARBONDALE		ROCK	45.3	337.5	
47.2	CARBONDALE	JAMESTOWN	COAL	3.5	382.8	
43.7	CARBONDALE		ROCK	1.3	386.3	
42.5	CARBONDALE		SHALE	1.0	387.5	LOG TRACE SUGGEST CARBONACEOUS
41.5	CARBONDALE		ROCK	9.0	388.5	
32.5	CARBONDALE	HERRIN	COAL	1.8	397.5	
30.7	CARBONDALE		ROCK	21.0	399.3	
9.7	CARBONDALE	BRIAR HILL	COAL	2.3	420.3	
7.5	CARBONDALE		ROCK	9.8	422.5	
-2.3	CARBONDALE	ST. DAVID	LIMESTONE	3.8	432.3	
-6.0	CARBONDALE	TURNER MINE	SHALE	1.0	436.0	LOG TRACE SUGGEST CARBONACEOUS
-7.0	CARBONDALE	SPRINGFIELD	COAL	2.5	437.0	
-9.5	CARBONDALE		ROCK	79.8	439.5	
-89.3	CARBONDALE		SHALE	4.8	519.3	LOG TRACE SUGGESTS CARBONACEOUS
-94.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	524.0	
-96.0	CARBONDALE		ROCK	49.0	526.0	
-145.0	CARBONDALE	PLEASANTVIEW	SANDSTONE	31.8	575.0	
-176.8	CARBONDALE		ROCK	10.3	606.8	
-187.0	CARBONDALE		SHALE	1.0	617.0	LOG TRACE SUGGEST CARBONACEOUS
-188.0	CARBONDALE		ROCK	16.0	618.0	
-204.0	CARBONDALE	MECCA QUARRY	SHALE	1.3	634.0	LOG TRACE SUGGEST CARBONACEOUS
-205.3	CARBONDALE	COLCHESTER	COAL	1.8	635.3	
-207.0	CARBONDALE		ROCK	19.5	637.0	
-226.5	CARBONDALE	SEELYVILLE	COAL	1.8	656.5	
-228.3	CARBONDALE	SEELYVILLE	ROCK	1.0	658.3	

-229.3	CARBONDALE	SEELYVILLE	COAL	1.3	659.3
-230.5	CARBONDALE	SEELYVILLE	ROCK	1.0	660.5
-231.5	CARBONDALE	SEELYVILLE	COAL	1.5	661.5
-233.0	CARBONDALE		ROCK	6.8	663.0
-239.8	TRADEWATER	SEAHORNE LS	LIMESTONE	1.0	669.8
-240.8			UNCLASSIFIED	63.3	670.8
-304.0			COAL	1.8	734.0
-305.8			UNCLASSIFIED	24.3	735.8

---

MAPID: 03335686000C    VERSION: 2

PROJECT: NCRDS94

COUNTY: CRAWFORD    TWP/RNG: 7N 11W    SECTION: 36    QUARTERS/FOOTAGES: NW NE SW

QUADRANGLE: MEROM    LONGITUDE: -87.587966    GEOLOGIST: HOKE

CONFIDENTIAL: N    LATITUDE: 39.005985    DATE COLLECTED: 12 / 16 / 1984

SURFACE ELEVATION (FT.): 430.0    LOGGED (FT.): 760.1    LOG TYPE: Drillers Log

SOURCE: EXXON    EIBI-11    WELL TYPE: Coal Test

COMMENT: GAMMA; DENSITY; RESIST. LOGS AVAILABLE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
420.0			UNCONSOLIDATED	70.0	10.0	SD AND GRAVEL
350.0			SANDSTONE	20.0	80.0	NO LOG FROM 0.00-10.00
330.0			GRAY SHALE	2.0	100.0	
328.0			LIMESTONE	2.0	102.0	
326.0			SILTY SHALE	48.0	104.0	
278.0			BLACK SHALE	2.0	152.0	
276.0			UNDERCLAY	6.0	154.0	
270.0			SILTY SHALE	40.0	160.0	
230.0			SANDSTONE	25.5	200.0	
204.5			COAL	1.5	225.5	
203.0			SILTY SHALE	19.0	227.0	
184.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	246.0	
180.0	MODESTO		SILTY SHALE	28.0	250.0	
152.0	MODESTO		LIMESTONE	2.0	278.0	
150.0	MODESTO		GRAY SHALE	3.0	280.0	
147.0	MODESTO		COAL	1.0	283.0	
146.0	MODESTO		GRAY SHALE	16.0	284.0	
130.0	MODESTO		SANDY SHALE	10.0	300.0	
120.0	MODESTO		SILTY SHALE	26.0	310.0	
94.0	CARBONDALE	DANVILLE	COAL	2.4	336.0	
91.6	CARBONDALE		UNDERCLAY	2.2	338.4	
89.5	CARBONDALE		UNDERCLAY	4.2	340.5	
85.3	CARBONDALE		SANDY SHALE	4.7	344.7	
80.7	CARBONDALE		SANDSTONE	13.2	349.3	INTERBEDDED SS AND SH
67.5	CARBONDALE		SILTY SHALE	6.7	362.5	
60.9	CARBONDALE		SILTY SHALE	1.7	369.1	
59.2	CARBONDALE		DARK GRAY SHALE	10.7	370.8	
48.6	CARBONDALE		DARK GRAY SHALE	2.6	381.4	
46.0	CARBONDALE		CALCAREOUS SHALE	0.2	384.0	
45.9	CARBONDALE	JAMESTOWN	COAL	3.7	384.1	
42.1	CARBONDALE		UNDERCLAY	0.4	387.9	
41.7	CARBONDALE		CALCAREOUS SHALE	0.7	388.3	
41.1	CARBONDALE		BLACK SHALE	5.8	388.9	
35.3	CARBONDALE		GRAY SHALE	4.4	394.7	
31.0	CARBONDALE		DARK GRAY SHALE	0.5	399.0	
30.5	CARBONDALE	HERRIN	COAL	1.9	399.5	
28.6	CARBONDALE		UNDERCLAY	0.1	401.4	
28.5	CARBONDALE		UNDERCLAY	3.7	401.5	
24.8	CARBONDALE		UNDERCLAY	2.8	405.2	

22.0	CARBONDALE		UNDERCLAY	1.1	408.0	
20.9	CARBONDALE		SANDSTONE	1.1	409.1	
19.8	CARBONDALE		SANDY SHALE	9.8	410.2	
10.0	CARBONDALE		UNCLASSIFIED	23.5	420.0	
-13.5	CARBONDALE	BRIAR HILL	COAL	2.0	443.5	
-15.5	CARBONDALE		UNCLASSIFIED	29.0	445.5	
-44.5	CARBONDALE	TURNER MINE	BLACK SHALE	3.5	474.5	
-48.0	CARBONDALE	SPRINGFIELD	COAL	2.3	478.0	
-50.3	CARBONDALE		UNCLASSIFIED	61.2	480.3	
-111.5	CARBONDALE	EXCELLO	BLACK SHALE	10.0	541.5	
-121.5	CARBONDALE	HOUCHIN CREEK	COAL	1.0	551.5	
-122.5	CARBONDALE		UNCLASSIFIED	71.5	552.5	
-194.0	CARBONDALE		SANDSTONE	0.4	624.0	
-194.3	CARBONDALE		SANDSTONE	1.5	624.3	
-195.8	CARBONDALE		SANDSTONE	1.6	625.8	
-197.4	CARBONDALE		SANDSTONE	2.5	627.4	
-199.8	CARBONDALE		SANDSTONE	0.4	629.8	INTERBEDDED SS AND SH
-200.2	CARBONDALE		SANDSTONE	0.7	630.2	
-200.8	CARBONDALE		SILTY SHALE	2.8	630.8	
-203.7	CARBONDALE		SANDSTONE	0.9	633.7	
-204.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	0.5	634.5	
-205.0	CARBONDALE	COLCHESTER	COAL	1.0	635.0	
-206.0	SPOON		UNDERCLAY	0.1	636.0	
-206.1	SPOON		UNDERCLAY	0.3	636.1	
-206.3	SPOON		UNDERCLAY	0.7	636.3	
-207.0	SPOON		UNDERCLAY	2.2	637.0	SDY UCLY
-209.2	SPOON		SANDSTONE	1.6	639.2	
-210.8	SPOON		SANDSTONE	4.3	640.8	
-215.0	SPOON		SANDSTONE	2.1	645.0	
-217.1	SPOON		SANDSTONE	2.2	647.1	
-219.3	SPOON		SANDSTONE	2.2	649.3	INTERBEDDED SS AND SH
-221.5	SPOON		DARK GRAY SHALE	4.7	651.5	
-226.2	SPOON		DARK GRAY SHALE	1.3	656.2	
-227.4	SPOON	SEELYVILLE	COAL	1.3	657.4	
-228.7	SPOON	SEELYVILLE	SHALE	0.8	658.7	
-229.4	SPOON	SEELYVILLE	COAL	0.6	659.4	
-230.0	SPOON	SEELYVILLE	CALCAREOUS SHALE	0.2	660.0	
-230.2	SPOON	SEELYVILLE	COAL	4.1	660.2	
-234.2			DARK GRAY SHALE	2.8	664.2	
-237.0			UNDERCLAY	1.0	667.0	
-238.0			UNDERCLAY	2.0	668.0	
-239.9			UNDERCLAY	0.3	669.9	
-240.2			UNDERCLAY	0.8	670.2	
-241.0			LIMESTONE	0.8	671.0	
-241.8			UNDERCLAY	0.4	671.8	
-242.2			UNDERCLAY	0.8	672.2	
-243.0			UNDERCLAY	1.5	673.0	

-244.5	UNDERCLAY	0.7	674.5	
-245.2	SANDSTONE	0.8	675.2	
-246.0	UNDERCLAY	1.0	676.0	
-246.9	SANDSTONE	0.3	676.9	
-247.2	SANDSTONE	1.3	677.2	INTERBEDDED SS AND SH
-248.4	GRAY SHALE	1.7	678.4	
-250.1	SANDSTONE	3.4	680.1	INTERBEDDED SS AND SH
-253.5	SILTY SHALE	76.5	683.5	

**MAPID:** 03300299000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 7N 12W    **SECTION:** 1    **QUARTERS/FOOTAGES:** NW NW SW  
**QUADRANGLE:** HUTSONVILLE    **LONGITUDE:** -87.701745    **GEOLOGIST:** C TREWORYG  
**CONFIDENTIAL:** N    **LATITUDE:** 39.080063    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 570.0    **LOGGED (FT.):** 840.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
109.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	461.0
11.0	CARBONDALE	DANVILLE	COAL	2.0	559.0
-29.0	CARBONDALE	JAMESTOWN	COAL	-	599.0
-41.0	CARBONDALE	HERRIN	COAL	2.0	611.0
-94.0	CARBONDALE	SPRINGFIELD	COAL	3.0	664.0
-180.0	CARBONDALE	HOUCHIN CREEK	COAL	-	750.0
-270.0	CARBONDALE	COLCHESTER	COAL	-	840.0

**MAPID:** 03329954000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 7N 12W    **SECTION:** 2    **QUARTERS/FOOTAGES:** SE SW SW  
**QUADRANGLE:** HUTSONVILLE    **LONGITUDE:** -87.718031    **GEOLOGIST:** C TREWORYG  
**CONFIDENTIAL:** N    **LATITUDE:** 39.074537    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 576.0    **LOGGED (FT.):** 850.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
124.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	452.0
14.0	CARBONDALE	DANVILLE	COAL	2.0	562.0
-27.0	CARBONDALE	JAMESTOWN	COAL	-	603.0
-37.0	CARBONDALE	HERRIN	COAL	1.5	613.0
-83.0	CARBONDALE	SPRINGFIELD	COAL	1.5	659.0
-164.0	CARBONDALE	HOUCHIN CREEK	COAL	-	740.0
-274.0	CARBONDALE	COLCHESTER	COAL	-	850.0

MAPID: 03300301000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 12W SECTION: 3 QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: HUTSONVILLE LONGITUDE: -87.727432 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.074567 DATE COLLECTED:

SURFACE ELEVATION (FT.): 542.0 LOGGED (FT.): 844.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
122.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	420.0
5.0	CARBONDALE	DANVILLE	COAL	3.5	537.0
-35.0	CARBONDALE	JAMESTOWN	COAL	-	577.0
-48.0	CARBONDALE	HERRIN	COAL	2.0	590.0
-98.0	CARBONDALE	SPRINGFIELD	COAL	2.5	640.0
-173.0	CARBONDALE	HOUCHIN CREEK	COAL	-	715.0
-286.0	CARBONDALE	COLCHESTER	COAL	-	828.0
-302.0	SPOON	SEELYVILLE	COAL	-	844.0

MAPID: 03329836000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 12W SECTION: 4 QUARTERS/FOOTAGES: SE SE SW

QUADRANGLE: EATON LONGITUDE: -87.750903 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.074576 DATE COLLECTED:

SURFACE ELEVATION (FT.): 572.0 LOGGED (FT.): 847.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
121.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	451.0
14.0	CARBONDALE	DANVILLE	COAL	-	558.0
-28.0	CARBONDALE	JAMESTOWN	COAL	-	600.0
-40.0	CARBONDALE	HERRIN	COAL	2.0	612.0
-91.0	CARBONDALE	SPRINGFIELD	COAL	2.0	663.0
-163.0	CARBONDALE	HOUCHIN CREEK	COAL	-	735.0
-275.0	CARBONDALE	COLCHESTER	COAL	-	847.0

MAPID: 03390109000C VERSION: 1

PROJECT: AVAIL

COUNTY: CRAWFORD TWP/RNG: 7N 12W SECTION: 4 QUARTERS/FOOTAGES: 2640' N line, 2640' E line

QUADRANGLE: HUTSONVILLE LONGITUDE: -87.749787 GEOLOGIST: LAWSON

CONFIDENTIAL: N LATITUDE: 39.078141 DATE COLLECTED: 10 / 18 / 1967

SURFACE ELEVATION (FT.): 446.0 LOGGED (FT.): 590.0 LOG TYPE: Drillers Log

SOURCE: AYRSHIRE 10 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
446.0	PLEISTOCENE		UNCONSOLIDATED	111.0	0.0
335.0			ROCK	93.0	111.0
242.0	MODESTO	CHAPEL	COAL	1.0	204.0
241.0	MODESTO		ROCK	188.0	205.0
53.0	CARBONDALE	DANVILLE	COAL	2.0	393.0
51.0	CARBONDALE		ROCK	30.0	395.0
21.0	CARBONDALE	JAMESTOWN	COAL	4.0	425.0
17.0	CARBONDALE		ROCK	8.0	429.0
9.0	CARBONDALE	HERRIN	COAL	1.0	437.0
8.0	CARBONDALE		ROCK	32.3	438.0
-24.3	CARBONDALE	BRIAR HILL	COAL	3.3	470.3
-27.5	CARBONDALE		ROCK	10.8	473.5
-38.3	CARBONDALE	SPRINGFIELD	COAL	2.0	484.3
-40.3	CARBONDALE		ROCK	103.7	486.3

MAPID: 03301945000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 12W SECTION: 5 QUARTERS/FOOTAGES: NE SE SW

QUADRANGLE: EATON LONGITUDE: -87.776351 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.074671 DATE COLLECTED:

SURFACE ELEVATION (FT.): 594.0 LOGGED (FT.): 843.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
159.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	435.0
45.0	CARBONDALE	DANVILLE	COAL	4.0	549.0
-1.0	CARBONDALE	JAMESTOWN	COAL	-	595.0
-15.0	CARBONDALE	HERRIN	COAL	3.0	609.0
-54.0	CARBONDALE	SPRINGFIELD	COAL	2.5	648.0
-127.0	CARBONDALE	HOUCHIN CREEK	COAL	-	721.0
-230.0	CARBONDALE	COLCHESTER	COAL	-	824.0
-243.0	SPOON	SEELYVILLE	COAL	6.0	837.0

MAPID: 03305545000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 12W SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 660' W line of NE

QUADRANGLE: EATON LONGITUDE: -87.785622 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.080509 DATE COLLECTED:

SURFACE ELEVATION (FT.): 547.0 LOGGED (FT.): 814.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
272.0	BOND	CARTHAGE	LIMESTONE	9.0	275.0
150.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	397.0
37.0	CARBONDALE	DANVILLE	COAL	3.0	510.0
-4.0	CARBONDALE	JAMESTOWN	COAL	2.5	551.0
-19.0	CARBONDALE	HERRIN	COAL	2.5	566.0
-70.0	CARBONDALE	SPRINGFIELD	COAL	3.5	617.0
-143.0	CARBONDALE	HOUCHIN CREEK	COAL	-	690.0
-251.0	CARBONDALE	COLCHESTER	COAL	-	798.0
-260.0	SPOON	SEELYVILLE	COAL	7.0	807.0

MAPID: 03300304000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 12W SECTION: 7 QUARTERS/FOOTAGES: 1' N line, 660' E line of SE SW

QUADRANGLE: EATON LONGITUDE: -87.790205 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.061312 DATE COLLECTED:

SURFACE ELEVATION (FT.): 550.0 LOGGED (FT.): 822.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
286.0	BOND	CARTHAGE	LIMESTONE	5.0	264.0
153.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	397.0
35.0	CARBONDALE	DANVILLE	COAL	4.0	515.0
-6.0	CARBONDALE	JAMESTOWN	COAL	-	556.0
-16.0	CARBONDALE	HERRIN	COAL	3.0	566.0
-68.0	CARBONDALE	SPRINGFIELD	COAL	2.0	618.0
-143.0	CARBONDALE	HOUCHIN CREEK	COAL	-	693.0
-240.0	CARBONDALE	COLCHESTER	COAL	-	790.0
-272.0	SPOON	SEELYVILLE	COAL	-	822.0



MAPID: 03330928000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 12W

SECTION: 7

QUARTERS/FOOTAGES: NW NE SE

QUADRANGLE: EATON

LONGITUDE: -87.781949

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.06412

DATE COLLECTED:

SURFACE ELEVATION (FT.): 559.0

LOGGED (FT.): 847.5

LOG TYPE: Nuclear Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
147.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	412.0
24.0	CARBONDALE	DANVILLE	COAL	4.5	535.0
-16.0	CARBONDALE	JAMESTOWN	COAL	3.0	575.0
-31.0	CARBONDALE	HERRIN	COAL	3.5	590.0
-80.0	CARBONDALE	SPRINGFIELD	COAL	3.5	639.0
-162.0	CARBONDALE	HOUCHIN CREEK	COAL	-	721.0
-264.0	CARBONDALE	COLCHESTER	COAL	-	823.0
-282.0	SPOON	SEELYVILLE	COAL	6.5	841.0

MAPID: 03330389000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 12W

SECTION: 8

QUARTERS/FOOTAGES: 415' S line, 2272' W line of NE SE

QUADRANGLE: PORTERVILLE

LONGITUDE: -87.767029

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.064063

DATE COLLECTED:

SURFACE ELEVATION (FT.): 575.0

LOGGED (FT.): 861.5

LOG TYPE: Nuclear Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
141.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	434.0
25.0	CARBONDALE	DANVILLE	COAL	4.0	550.0
-20.0	CARBONDALE	JAMESTOWN	COAL	2.5	595.0
-35.0	CARBONDALE	HERRIN	COAL	3.0	610.0
-84.0	CARBONDALE	SPRINGFIELD	COAL	2.5	659.0
-164.0	CARBONDALE	HOUCHIN CREEK	COAL	-	739.0
-271.0	CARBONDALE	COLCHESTER	COAL	-	846.0
-280.0	SPOON	SEELYVILLE	COAL	6.5	855.0

MAPID: 03330391000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 7N 12W    SECTION: 8    QUARTERS/FOOTAGES: 448' S line, 745' E line of NE SE

QUADRANGLE: EATON    LONGITUDE: -87.761624    GEOLOGIST: C TREWORYG

CONFIDENTIAL: N    LATITUDE: 39.064073    DATE COLLECTED:

SURFACE ELEVATION (FT.): 573.0    LOGGED (FT.): 846.0    LOG TYPE: Nuclear Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
141.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	432.0
31.0	CARBONDALE	DANVILLE	COAL	3.5	542.0
-15.0	CARBONDALE	JAMESTOWN	COAL	2.5	588.0
-31.0	CARBONDALE	HERRIN	COAL	3.5	604.0
-81.0	CARBONDALE	SPRINGFIELD	COAL	2.5	654.0
-157.0	CARBONDALE	HOUCHIN CREEK	COAL	-	730.0
-257.0	CARBONDALE	COLCHESTER	COAL	-	830.0
-266.0	SPOON	SEELYVILLE	COAL	7.0	839.0

MAPID: 03330410000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 7N 12W    SECTION: 8    QUARTERS/FOOTAGES: 1750' S line, 2100' E line of NE SE

QUADRANGLE: EATON    LONGITUDE: -87.766443    GEOLOGIST: C TREWORYG

CONFIDENTIAL: N    LATITUDE: 39.06774    DATE COLLECTED:

SURFACE ELEVATION (FT.): 573.0    LOGGED (FT.): 830.0    LOG TYPE: Nuclear Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
153.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	420.0
43.0	CARBONDALE	DANVILLE	COAL	4.0	530.0
-1.0	CARBONDALE	JAMESTOWN	COAL	3.0	574.0
-16.0	CARBONDALE	HERRIN	COAL	3.5	589.0
-65.0	CARBONDALE	SPRINGFIELD	COAL	2.5	638.0
-143.0	CARBONDALE	HOUCHIN CREEK	COAL	-	716.0
-242.0	CARBONDALE	COLCHESTER	COAL	-	815.0
-250.0	SPOON	SEELYVILLE	COAL	7.0	823.0

MAPID: 03300306000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 12W SECTION: 9 QUARTERS/FOOTAGES: 660' N line, 660' E line of SE

QUADRANGLE: HUTSONVILLE LONGITUDE: -87.742764 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.064663 DATE COLLECTED:

SURFACE ELEVATION (FT.): 585.0 LOGGED (FT.): 877.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
122.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	463.0
5.0	CARBONDALE	DANVILLE	COAL	3.5	580.0
-38.0	CARBONDALE	JAMESTOWN	COAL	-	623.0
-50.0	CARBONDALE	HERRIN	COAL	1.5	635.0
-96.0	CARBONDALE	SPRINGFIELD	COAL	3.0	681.0
-174.0	CARBONDALE	HOUCHIN CREEK	COAL	-	759.0
-276.0	CARBONDALE	COLCHESTER	COAL	-	861.0
-289.0	SPOON	SEELYVILLE	COAL	3.0	874.0

MAPID: 03301812000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 12W SECTION: 9 QUARTERS/FOOTAGES: NW SW SW

QUADRANGLE: EATON LONGITUDE: -87.757813 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.061901 DATE COLLECTED:

SURFACE ELEVATION (FT.): 572.0 LOGGED (FT.): 870.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
122.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	450.0
8.0	CARBONDALE	DANVILLE	COAL	4.0	564.0
-36.0	CARBONDALE	JAMESTOWN	COAL	-	608.0
-51.0	CARBONDALE	HERRIN	COAL	2.5	623.0
-101.0	CARBONDALE	SPRINGFIELD	COAL	2.5	673.0
-179.0	CARBONDALE	HOUCHIN CREEK	COAL	-	751.0
-281.0	CARBONDALE	COLCHESTER	COAL	-	853.0
-292.0	SPOON	SEELYVILLE	COAL	6.0	864.0

MAPID: 03300308000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 12W SECTION: 10 QUARTERS/FOOTAGES: SW SE NW  
 QUADRANGLE: HUTSONVILLE LONGITUDE: -87.734544 GEOLOGIST: C TREWORY  
 CONFIDENTIAL: N LATITUDE: 39.067347 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 551.0 LOGGED (FT.): 857.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
1.0	CARBONDALE	DANVILLE	COAL	4.0	550.0
-42.0	CARBONDALE	JAMESTOWN	COAL	-	593.0
-55.0	CARBONDALE	HERRIN	COAL	3.0	606.0
-99.0	CARBONDALE	SPRINGFIELD	COAL	1.5	650.0
-177.0	CARBONDALE	HOUCHIN CREEK	COAL	-	728.0
-285.0	CARBONDALE	COLCHESTER	COAL	-	836.0
-300.0	SPOON	SEELYVILLE	COAL	6.0	851.0

MAPID: 03305575000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 12W SECTION: 10 QUARTERS/FOOTAGES: 30' S line, 660' E line of SW NE  
 QUADRANGLE: HUTSONVILLE LONGITUDE: -87.728644 GEOLOGIST: C TREWORY  
 CONFIDENTIAL: N LATITUDE: 39.066462 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 530.0 LOGGED (FT.): 842.5 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
121.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	409.0
10.0	CARBONDALE	DANVILLE	COAL	4.0	520.0
-30.0	CARBONDALE	JAMESTOWN	COAL	-	560.0
-43.0	CARBONDALE	HERRIN	COAL	2.0	573.0
-93.0	CARBONDALE	SPRINGFIELD	COAL	2.5	623.0
-175.0	CARBONDALE	HOUCHIN CREEK	COAL	-	705.0
-285.0	CARBONDALE	COLCHESTER	COAL	-	815.0
-308.0	SPOON	SEELYVILLE	COAL	4.5	838.0

MAPID: 0330559000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 12W SECTION: 11 QUARTERS/FOOTAGES: 660' N line, 660' W line

QUADRANGLE: HUTSONVILLE LONGITUDE: -87.719188 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.071799 DATE COLLECTED:

SURFACE ELEVATION (FT.): 550.0 LOGGED (FT.): 864.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
122.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	428.0
13.0	CARBONDALE	DANVILLE	COAL	4.0	537.0
-30.0	CARBONDALE	JAMESTOWN	COAL	-	580.0
-42.0	CARBONDALE	HERRIN	COAL	2.5	592.0
-89.0	CARBONDALE	SPRINGFIELD	COAL	2.0	639.0
-170.0	CARBONDALE	HOUCHIN CREEK	COAL	-	720.0
-280.0	CARBONDALE	COLCHESTER	COAL	-	830.0
-308.0	SPOON	SEELYVILLE	COAL	6.0	858.0

MAPID: 03302511000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 12W SECTION: 13 QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: HUTSONVILLE LONGITUDE: -87.701888 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.058241 DATE COLLECTED:

SURFACE ELEVATION (FT.): 509.0 LOGGED (FT.): 582.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
136.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	373.0
31.0	CARBONDALE	DANVILLE	COAL	3.0	478.0
-7.0	CARBONDALE	JAMESTOWN	COAL	-	516.0
-71.0	CARBONDALE	SPRINGFIELD	COAL	2.5	580.0

MAPID: 03329752000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 12W

SECTION: 15

QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: HUTSONVILLE

LONGITUDE: -87.739249

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.058301

DATE COLLECTED:

SURFACE ELEVATION (FT.): 551.0

LOGGED (FT.): 861.5

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
120.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	431.0
9.0	CARBONDALE	DANVILLE	COAL	3.5	542.0
-33.0	CARBONDALE	JAMESTOWN	COAL	-	584.0
-46.0	CARBONDALE	HERRIN	COAL	2.0	597.0
-97.0	CARBONDALE	SPRINGFIELD	COAL	2.0	648.0
-178.0	CARBONDALE	HOUCHIN CREEK	COAL	-	729.0
-279.0	CARBONDALE	COLCHESTER	COAL	-	830.0
-305.0	SPOON	SEELYVILLE	COAL	5.5	856.0

MAPID: 03302954000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 12W

SECTION: 16

QUARTERS/FOOTAGES: SE SE SW

QUADRANGLE: EATON

LONGITUDE: -87.75096

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.045571

DATE COLLECTED:

SURFACE ELEVATION (FT.): 585.0

LOGGED (FT.): 892.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
110.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	475.0
3.0	CARBONDALE	DANVILLE	COAL	2.5	582.0
-35.0	CARBONDALE	JAMESTOWN	COAL	-	620.0
-49.0	CARBONDALE	HERRIN	COAL	2.0	634.0
-100.0	CARBONDALE	SPRINGFIELD	COAL	2.5	685.0
-178.0	CARBONDALE	HOUCHIN CREEK	COAL	-	763.0
-283.0	CARBONDALE	COLCHESTER	COAL	-	868.0
-302.0	SPOON	SEELYVILLE	COAL	5.0	887.0

MAPID: 03301772000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 12W

SECTION: 17

QUARTERS/FOOTAGES: NW SE NW

QUADRANGLE: EATON

LONGITUDE: -87.772456

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.053143

DATE COLLECTED:

SURFACE ELEVATION (FT.): 561.0

LOGGED (FT.): 832.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
154.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	407.0
39.0	CARBONDALE	DANVILLE	COAL	-	522.0
-5.0	CARBONDALE	JAMESTOWN	COAL	-	566.0
-16.0	CARBONDALE	HERRIN	COAL	2.5	577.0
-65.0	CARBONDALE	SPRINGFIELD	COAL	2.5	626.0
-142.0	CARBONDALE	HOUCHIN CREEK	COAL	-	703.0
-239.0	CARBONDALE	COLCHESTER	COAL	-	800.0
-265.0	SPOON	SEELYVILLE	COAL	6.0	826.0

MAPID: 03301457000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 12W

SECTION: 18

QUARTERS/FOOTAGES: 15' N line, 15' E line of SW SW

QUADRANGLE: EATON

LONGITUDE: -87.792364

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.046373

DATE COLLECTED:

SURFACE ELEVATION (FT.): 540.0

LOGGED (FT.): 802.0

LOG TYPE: Nuclear Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
48.0	CARBONDALE	DANVILLE	COAL	-	492.0
2.0	CARBONDALE	JAMESTOWN	COAL	-	538.0
-8.0	CARBONDALE	HERRIN	COAL	-	548.0
-58.0	CARBONDALE	SPRINGFIELD	COAL	-	598.0
-138.0	CARBONDALE	HOUCHIN CREEK	COAL	-	678.0
-242.0	CARBONDALE	COLCHESTER	COAL	-	782.0
-262.0	SPOON	SEELYVILLE	COAL	-	802.0

MAPID: 03300315000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 12W

SECTION: 19

QUARTERS/FOOTAGES: SE SE SW

QUADRANGLE: EATON

LONGITUDE: -87.788542

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.028712

DATE COLLECTED:

SURFACE ELEVATION (FT.): 541.0

LOGGED (FT.): 764.5

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
89.0	CARBONDALE	DANVILLE	COAL	3.0	452.0
41.0	CARBONDALE	JAMESTOWN	COAL	-	500.0
29.0	CARBONDALE	HERRIN	COAL	-	512.0
-17.0	CARBONDALE	SPRINGFIELD	COAL	-	558.0
-94.0	CARBONDALE	HOUCHIN CREEK	COAL	-	635.0
-179.0	CARBONDALE	COLCHESTER	COAL	-	720.0
-218.0	SPOON	SEELYVILLE	COAL	5.5	759.0

MAPID: 03324749000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 12W

SECTION: 19

QUARTERS/FOOTAGES: 1210' N line, 874' W line of NW

QUADRANGLE: EATON

LONGITUDE: -87.793859

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.039307

DATE COLLECTED:

SURFACE ELEVATION (FT.): 546.0

LOGGED (FT.): 774.0

LOG TYPE: Nuclear Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
202.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	344.0
92.0	CARBONDALE	DANVILLE	COAL	3.5	454.0
51.0	CARBONDALE	JAMESTOWN	COAL	2.0	495.0
42.0	CARBONDALE	HERRIN	COAL	2.5	504.0
-10.0	CARBONDALE	SPRINGFIELD	COAL	2.5	556.0
-84.0	CARBONDALE	HOUCHIN CREEK	COAL	-	630.0
-170.0	CARBONDALE	COLCHESTER	COAL	-	716.0
-224.0	SPOON	SEELYVILLE	COAL	4.0	770.0



MAPID: 03324765000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 7N 12W    SECTION: 19    QUARTERS/FOOTAGES: 1208' N line, 521' W line of NW

QUADRANGLE: EATON    LONGITUDE: -87.795105    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 39.039295    DATE COLLECTED:

SURFACE ELEVATION (FT.): 546.0    LOGGED (FT.): 771.5    LOG TYPE: Nuclear Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
205.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	341.0
91.0	CARBONDALE	DANVILLE	COAL	4.0	455.0
52.0	CARBONDALE	JAMESTOWN	COAL	2.5	494.0
42.0	CARBONDALE	HERRIN	COAL	2.5	504.0
-11.0	CARBONDALE	SPRINGFIELD	COAL	2.5	557.0
-84.0	CARBONDALE	HOUCHIN CREEK	COAL	-	630.0
-171.0	CARBONDALE	COLCHESTER	COAL	-	717.0
-221.0	SPOON	SEELYVILLE	COAL	4.5	767.0

MAPID: 03324782000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 7N 12W    SECTION: 19    QUARTERS/FOOTAGES: 1300' N line, 342' W line of NE

QUADRANGLE: EATON    LONGITUDE: -87.786208    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 39.039165    DATE COLLECTED:

SURFACE ELEVATION (FT.): 556.0    LOGGED (FT.): 795.0    LOG TYPE: Nuclear Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
184.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	372.0
66.0	CARBONDALE	DANVILLE	COAL	4.0	490.0
27.0	CARBONDALE	JAMESTOWN	COAL	4.0	529.0
17.0	CARBONDALE	HERRIN	COAL	4.0	539.0
-36.0	CARBONDALE	SPRINGFIELD	COAL	2.5	592.0
-111.0	CARBONDALE	HOUCHIN CREEK	COAL	-	667.0
-216.0	CARBONDALE	COLCHESTER	COAL	-	772.0
-232.0	SPOON	SEELYVILLE	COAL	7.0	788.0

MAPID: 03301810000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 12W

SECTION: 20

QUARTERS/FOOTAGES: NW SE SE

QUADRANGLE: EATON

LONGITUDE: -87.762686

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.032742

DATE COLLECTED:

SURFACE ELEVATION (FT.): 559.0

LOGGED (FT.): 822.5

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
52.0	CARBONDALE	DANVILLE	COAL	3.0	507.0
11.0	CARBONDALE	JAMESTOWN	COAL	-	548.0
3.0	CARBONDALE	HERRIN	COAL	2.5	556.0
-54.0	CARBONDALE	SPRINGFIELD	COAL	2.0	613.0
-129.0	CARBONDALE	HOUCHIN CREEK	COAL	-	688.0
-237.0	CARBONDALE	COLCHESTER	COAL	-	796.0
-259.0	SPOON	SEELYVILLE	COAL	4.5	818.0

MAPID: 03308302000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 12W

SECTION: 20

QUARTERS/FOOTAGES: 300' S line, 300' W line of SE

QUADRANGLE: EATON

LONGITUDE: -87.767476

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.030712

DATE COLLECTED:

SURFACE ELEVATION (FT.): 556.0

LOGGED (FT.): 818.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
166.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	390.0
56.0	CARBONDALE	DANVILLE	COAL	-	500.0
16.0	CARBONDALE	JAMESTOWN	COAL	-	540.0
1.0	CARBONDALE	HERRIN	COAL	-	555.0
-56.0	CARBONDALE	SPRINGFIELD	COAL	2.0	612.0
-134.0	CARBONDALE	HOUCHIN CREEK	COAL	-	690.0
-232.0	CARBONDALE	COLCHESTER	COAL	-	788.0
-257.0	SPOON	SEELYVILLE	COAL	5.0	813.0

MAPID: 03302705000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 12W

SECTION: 21

QUARTERS/FOOTAGES: SW NE SW

QUADRANGLE: EATON

LONGITUDE: -87.75342

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 39.034547

DATE COLLECTED:

SURFACE ELEVATION (FT.): 552.0

LOGGED (FT.): 816.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
150.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	402.0
43.0	CARBONDALE	DANVILLE	COAL	3.0	509.0
4.0	CARBONDALE	JAMESTOWN	COAL	-	548.0
-4.0	CARBONDALE	HERRIN	COAL	2.0	556.0
-55.0	CARBONDALE	SPRINGFIELD	COAL	2.5	607.0
-130.0	CARBONDALE	HOUCHIN CREEK	COAL	-	682.0
-246.0	CARBONDALE	COLCHESTER	COAL	-	798.0
-259.0	SPOON	SEELYVILLE	COAL	5.0	811.0

MAPID: 03302948000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 12W

SECTION: 21

QUARTERS/FOOTAGES: NW SW SE

QUADRANGLE: HUTSONVILLE

LONGITUDE: -87.74885

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 39.032651

DATE COLLECTED:

SURFACE ELEVATION (FT.): 551.0

LOGGED (FT.): 830.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
124.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	427.0
19.0	CARBONDALE	DANVILLE	COAL	-	532.0
-25.0	CARBONDALE	JAMESTOWN	COAL	-	576.0
-34.0	CARBONDALE	HERRIN	COAL	2.0	585.0
-86.0	CARBONDALE	SPRINGFIELD	COAL	2.0	637.0
-163.0	CARBONDALE	HOUCHIN CREEK	COAL	-	714.0
-279.0	CARBONDALE	COLCHESTER	COAL	-	830.0

MAPID: 03300479000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 7N 12W    SECTION: 22    QUARTERS/FOOTAGES: SE NE SE

QUADRANGLE: HUTSONVILLE    LONGITUDE: -87.723229    GEOLOGIST: C TREWORY

CONFIDENTIAL: N    LATITUDE: 39.034223    DATE COLLECTED:

SURFACE ELEVATION (FT.): 521.0    LOGGED (FT.): 829.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
110.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	411.0
-1.0	CARBONDALE	DANVILLE	COAL	3.5	522.0
-47.0	CARBONDALE	JAMESTOWN	COAL	-	568.0
-57.0	CARBONDALE	HERRIN	COAL	2.5	578.0
-104.0	CARBONDALE	SPRINGFIELD	COAL	2.5	625.0
-191.0	CARBONDALE	HOUCHIN CREEK	COAL	-	712.0
-274.0	CARBONDALE	COLCHESTER	COAL	-	795.0
-303.0	SPOON	SEELYVILLE	COAL	5.0	824.0

MAPID: 03301721000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 7N 12W    SECTION: 28    QUARTERS/FOOTAGES: NE NE NW

QUADRANGLE: EATON    LONGITUDE: -87.751209    GEOLOGIST: C TREWORY

CONFIDENTIAL: N    LATITUDE: 39.029    DATE COLLECTED:

SURFACE ELEVATION (FT.): 546.0    LOGGED (FT.): 829.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
141.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	405.0
32.0	CARBONDALE	DANVILLE	COAL	3.0	514.0
-11.0	CARBONDALE	JAMESTOWN	COAL	-	557.0
-19.0	CARBONDALE	HERRIN	COAL	2.5	565.0
-71.0	CARBONDALE	SPRINGFIELD	COAL	2.0	617.0
-150.0	CARBONDALE	HOUCHIN CREEK	COAL	-	696.0
-260.0	CARBONDALE	COLCHESTER	COAL	-	806.0
-278.0	SPOON	SEELYVILLE	COAL	5.0	824.0

MAPID: 03302953000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 7N 12W    SECTION: 29    QUARTERS/FOOTAGES: 322' S line, 920' E line of NE SW

QUADRANGLE: EATON    LONGITUDE: -87.771482    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 39.017571    DATE COLLECTED:

SURFACE ELEVATION (FT.): 541.0    LOGGED (FT.): 787.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
183.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	358.0
76.0	CARBONDALE	DANVILLE	COAL	3.5	465.0
43.0	CARBONDALE	JAMESTOWN	COAL	2.0	498.0
24.0	CARBONDALE	HERRIN	COAL	3.0	517.0
-28.0	CARBONDALE	SPRINGFIELD	COAL	-	569.0
-108.0	CARBONDALE	HOUCHIN CREEK	COAL	-	649.0
-209.0	CARBONDALE	COLCHESTER	COAL	-	750.0
-246.0	SPOON	SEELYVILLE	COAL	-	787.0

MAPID: 03300291000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 7N 12W    SECTION: 31    QUARTERS/FOOTAGES: 1' S line, 330' W line of NW SW

QUADRANGLE: EATON    LONGITUDE: -87.795273    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 39.00157    DATE COLLECTED:

SURFACE ELEVATION (FT.): 523.0    LOGGED (FT.): 735.5    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
207.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	316.0
100.0	CARBONDALE	DANVILLE	COAL	3.0	423.0
55.0	CARBONDALE	JAMESTOWN	COAL	2.0	468.0
47.0	CARBONDALE	HERRIN	COAL	-	476.0
-7.0	CARBONDALE	SPRINGFIELD	COAL	2.0	530.0
-87.0	CARBONDALE	HOUCHIN CREEK	COAL	-	610.0
-186.0	CARBONDALE	COLCHESTER	COAL	-	709.0
-208.0	SPOON	SEELYVILLE	COAL	4.5	731.0

MAPID: 03308693000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 12W

SECTION: 31

QUARTERS/FOOTAGES: NW NE NE

QUADRANGLE: EATON

LONGITUDE: -87.781152

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.012012

DATE COLLECTED:

SURFACE ELEVATION (FT.): 537.0

LOGGED (FT.): 620.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
199.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	338.0
93.0	CARBONDALE	DANVILLE	COAL	-	444.0
50.0	CARBONDALE	JAMESTOWN	COAL	-	487.0
38.0	CARBONDALE	HERRIN	COAL	-	499.0
-7.0	CARBONDALE	SPRINGFIELD	COAL	-	544.0
-83.0	CARBONDALE	HOUCHIN CREEK	COAL	-	620.0

MAPID: 03301667000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 13W

SECTION: 1

QUARTERS/FOOTAGES: SW SW NW

QUADRANGLE: EATON

LONGITUDE: -87.814424

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.079554

DATE COLLECTED:

SURFACE ELEVATION (FT.): 520.0

LOGGED (FT.): 785.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
155.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	365.0
56.0	CARBONDALE	DANVILLE	COAL	2.5	464.0
11.0	CARBONDALE	JAMESTOWN	COAL	-	509.0
5.0	CARBONDALE	HERRIN	COAL	3.0	515.0
-45.0	CARBONDALE	SPRINGFIELD	COAL	2.5	565.0
-119.0	CARBONDALE	HOUCHIN CREEK	COAL	-	639.0
-225.0	CARBONDALE	COLCHESTER	COAL	-	745.0
-260.0	SPOON	SEELYVILLE	COAL	5.0	780.0

MAPID: 03301723000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 13W

SECTION: 1

QUARTERS/FOOTAGES: SW SE NE

QUADRANGLE: EATON

LONGITUDE: -87.800897

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 39.079764

DATE COLLECTED:

SURFACE ELEVATION (FT.): 550.0

LOGGED (FT.): 799.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
177.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	373.0
65.0	CARBONDALE	DANVILLE	COAL	3.5	485.0
20.0	CARBONDALE	JAMESTOWN	COAL	-	530.0
10.0	CARBONDALE	HERRIN	COAL	3.0	540.0
-41.0	CARBONDALE	SPRINGFIELD	COAL	2.5	591.0
-113.0	CARBONDALE	HOUCHIN CREEK	COAL	-	663.0
-220.0	CARBONDALE	COLCHESTER	COAL	-	770.0
-244.0	SPOON	SEELYVILLE	COAL	5.0	794.0

MAPID: 03300332000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 13W

SECTION: 2

QUARTERS/FOOTAGES: 200' S line, 300' W line of SE SE

QUADRANGLE: EATON

LONGITUDE: -87.819045

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 39.071735

DATE COLLECTED:

SURFACE ELEVATION (FT.): 498.0

LOGGED (FT.): 748.5

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
188.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	310.0
66.0	CARBONDALE	DANVILLE	COAL	3.0	432.0
21.0	CARBONDALE	JAMESTOWN	COAL	-	477.0
14.0	CARBONDALE	HERRIN	COAL	2.5	484.0
-32.0	CARBONDALE	SPRINGFIELD	COAL	3.0	530.0
-102.0	CARBONDALE	HOUCHIN CREEK	COAL	-	600.0
-223.0	CARBONDALE	COLCHESTER	COAL	-	721.0
-246.0	SPOON	SEELYVILLE	COAL	4.5	744.0

MAPID: 03301582000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 5 QUARTERS/FOOTAGES: SW SE NE

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.8752 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.079774 DATE COLLECTED:

SURFACE ELEVATION (FT.): 523.0 LOGGED (FT.): 777.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
154.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	369.0
45.0	CARBONDALE	DANVILLE	COAL	2.0	478.0
-1.0	CARBONDALE	JAMESTOWN	COAL	-	524.0
-53.0	CARBONDALE	SPRINGFIELD	COAL	-	576.0
-116.0	CARBONDALE	HOUCHIN CREEK	COAL	-	639.0
-233.0	CARBONDALE	COLCHESTER	COAL	-	756.0
-254.0	SPOON	SEELYVILLE	COAL	-	777.0

MAPID: 03301105000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 6 QUARTERS/FOOTAGES: SW NW SE

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.899277 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.076026 DATE COLLECTED:

SURFACE ELEVATION (FT.): 489.0 LOGGED (FT.): 745.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
155.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	334.0
40.0	CARBONDALE	DANVILLE	COAL	2.5	449.0
-6.0	CARBONDALE	JAMESTOWN	COAL	-	495.0
-57.0	CARBONDALE	SPRINGFIELD	COAL	2.0	546.0
-126.0	CARBONDALE	HOUCHIN CREEK	COAL	-	615.0
-234.0	CARBONDALE	COLCHESTER	COAL	-	723.0
-251.0	SPOON	SEELYVILLE	COAL	5.0	740.0



MAPID: 03309039000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 6 QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.909296 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.07235 DATE COLLECTED:

SURFACE ELEVATION (FT.): 514.0 LOGGED (FT.): 754.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
165.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	349.0
55.0	CARBONDALE	DANVILLE	COAL	-	459.0
3.0	CARBONDALE	HERRIN	COAL	-	511.0
-42.0	CARBONDALE	SPRINGFIELD	COAL	-	556.0
-106.0	CARBONDALE	HOUCHIN CREEK	COAL	-	620.0
-227.0	CARBONDALE	COLCHESTER	COAL	-	741.0
-237.0	SPOON	SEELYVILLE	COAL	3.0	751.0

MAPID: 03308271000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 7 QUARTERS/FOOTAGES: 545' S line, 383' E line of SW SE

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.896659 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.058237 DATE COLLECTED:

SURFACE ELEVATION (FT.): 510.0 LOGGED (FT.): 733.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
191.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	319.0
76.0	CARBONDALE	DANVILLE	COAL	2.5	434.0
24.0	CARBONDALE	HERRIN	COAL	-	486.0
-12.0	CARBONDALE	SPRINGFIELD	COAL	-	522.0
-80.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0
-193.0	CARBONDALE	COLCHESTER	COAL	-	703.0
-220.0	SPOON	SEELYVILLE	COAL	3.5	730.0

MAPID: 03308732000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 7 QUARTERS/FOOTAGES: 10' N line, 660' W line of NE NW

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.903176 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.071383 DATE COLLECTED:

SURFACE ELEVATION (FT.): 485.0 LOGGED (FT.): 739.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
163.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	322.0
50.0	CARBONDALE	DANVILLE	COAL	1.5	435.0
4.0	CARBONDALE	JAMESTOWN	COAL	-	481.0
-43.0	CARBONDALE	SPRINGFIELD	COAL	2.0	528.0
-110.0	CARBONDALE	HOUCHIN CREEK	COAL	-	595.0
-223.0	CARBONDALE	COLCHESTER	COAL	-	708.0
-250.0	SPOON	SEELYVILLE	COAL	4.5	735.0

MAPID: 03308898000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 7 QUARTERS/FOOTAGES: 25' S line, 10' W line of SE NW

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.905227 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.064133 DATE COLLECTED:

SURFACE ELEVATION (FT.): 487.0 LOGGED (FT.): 719.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
174.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	313.0
62.0	CARBONDALE	DANVILLE	COAL	2.5	425.0
15.0	CARBONDALE	JAMESTOWN	COAL	-	472.0
5.0	CARBONDALE	HERRIN	COAL	-	482.0
-30.0	CARBONDALE	SPRINGFIELD	COAL	2.0	517.0
-95.0	CARBONDALE	HOUCHIN CREEK	COAL	-	582.0
-208.0	CARBONDALE	COLCHESTER	COAL	-	695.0
-230.0	SPOON	SEELYVILLE	COAL	2.0	717.0

MAPID: 03300334000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 8 QUARTERS/FOOTAGES: 134' S line, 15' W line of NE NE

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.876218 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.068131 DATE COLLECTED:

SURFACE ELEVATION (FT.): 526.0 LOGGED (FT.): 566.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
164.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	362.0
54.0	CARBONDALE	DANVILLE	COAL	3.0	472.0
11.0	CARBONDALE	JAMESTOWN	COAL	-	515.0
0.0	CARBONDALE	HERRIN	COAL	-	526.0
-40.0	CARBONDALE	SPRINGFIELD	COAL	-	566.0

MAPID: 03300335000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 8 QUARTERS/FOOTAGES: 662' S line, 662' W line of NW

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.888099 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.065885 DATE COLLECTED:

SURFACE ELEVATION (FT.): 495.0 LOGGED (FT.): 740.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
170.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	325.0
61.0	CARBONDALE	DANVILLE	COAL	4.0	434.0
7.0	CARBONDALE	HERRIN	COAL	-	488.0
-33.0	CARBONDALE	SPRINGFIELD	COAL	4.0	528.0
-99.0	CARBONDALE	HOUCHIN CREEK	COAL	-	594.0
-214.0	CARBONDALE	COLCHESTER	COAL	-	709.0
-240.0	SPOON	SEELYVILLE	COAL	5.0	735.0

MAPID: 03305895000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 7N 13W    SECTION: 9    QUARTERS/FOOTAGES: 346' N line, 663' E line of SW

QUADRANGLE: EATON    LONGITUDE: -87.864494    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 39.063102    DATE COLLECTED:

SURFACE ELEVATION (FT.): 539.0    LOGGED (FT.): 788.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
164.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	375.0
53.0	CARBONDALE	DANVILLE	COAL	3.5	486.0
7.0	CARBONDALE	JAMESTOWN	COAL	-	532.0
-3.0	CARBONDALE	HERRIN	COAL	-	542.0
-41.0	CARBONDALE	SPRINGFIELD	COAL	-	580.0
-114.0	CARBONDALE	HOUCHIN CREEK	COAL	-	653.0
-217.0	CARBONDALE	COLCHESTER	COAL	-	756.0
-243.0	SPOON	SEELYVILLE	COAL	6.0	782.0

MAPID: 03300339000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 7N 13W    SECTION: 10    QUARTERS/FOOTAGES: 220' N line, 330' W line of SE SE

QUADRANGLE: EATON    LONGITUDE: -87.837473    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 39.059691    DATE COLLECTED:

SURFACE ELEVATION (FT.): 536.0    LOGGED (FT.): 770.5    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
178.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	358.0
63.0	CARBONDALE	DANVILLE	COAL	3.0	473.0
16.0	CARBONDALE	JAMESTOWN	COAL	-	520.0
11.0	CARBONDALE	HERRIN	COAL	2.0	525.0
-43.0	CARBONDALE	SPRINGFIELD	COAL	2.5	579.0
-93.0	CARBONDALE	HOUCHIN CREEK	COAL	-	629.0
-218.0	CARBONDALE	COLCHESTER	COAL	-	754.0
-231.0	SPOON	SEELYVILLE	COAL	3.5	767.0

MAPID: 03302238000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 10 QUARTERS/FOOTAGES: 669' S line, 595' E line of SW

QUADRANGLE: EATON LONGITUDE: -87.845456 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.058468 DATE COLLECTED:

SURFACE ELEVATION (FT.): 531.0 LOGGED (FT.): 750.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
71.0	CARBONDALE	DANVILLE	COAL	-	460.0
29.0	CARBONDALE	JAMESTOWN	COAL	-	502.0
21.0	CARBONDALE	HERRIN	COAL	-	510.0
-22.0	CARBONDALE	SPRINGFIELD	COAL	2.5	553.0
-196.0	CARBONDALE	COLCHESTER	COAL	-	727.0
-214.0	SPOON	SEELYVILLE	COAL	5.5	745.0

MAPID: 03308524000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 11 QUARTERS/FOOTAGES: 400' S line, 650' E line of SW

QUADRANGLE: EATON LONGITUDE: -87.826932 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.057684 DATE COLLECTED:

SURFACE ELEVATION (FT.): 522.0 LOGGED (FT.): 738.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
202.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	320.0
90.0	CARBONDALE	DANVILLE	COAL	3.0	432.0
47.0	CARBONDALE	JAMESTOWN	COAL	-	475.0
39.0	CARBONDALE	HERRIN	COAL	-	483.0
-5.0	CARBONDALE	SPRINGFIELD	COAL	2.5	527.0
-68.0	CARBONDALE	HOUCHIN CREEK	COAL	-	590.0
-176.0	CARBONDALE	COLCHESTER	COAL	-	698.0
-211.0	SPOON	SEELYVILLE	COAL	5.0	733.0

**MAPID:** 03302269000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 7N 13W    **SECTION:** 12    **QUARTERS/FOOTAGES:** SE SE SE  
**QUADRANGLE:** EATON    **LONGITUDE:** -87.79847    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 39.057681    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 537.0    **LOGGED (FT.):** 797.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
7.0	CARBONDALE	JAMESTOWN	COAL	-	530.0
-1.0	CARBONDALE	HERRIN	COAL	2.5	538.0
-52.0	CARBONDALE	SPRINGFIELD	COAL	2.0	589.0
-123.0	CARBONDALE	HOUCHIN CREEK	COAL	-	660.0
-223.0	CARBONDALE	COLCHESTER	COAL	-	760.0
-254.0	SPOON	SEELYVILLE	COAL	6.0	791.0

**MAPID:** 03308301000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 7N 13W    **SECTION:** 12    **QUARTERS/FOOTAGES:** SW NE NW  
**QUADRANGLE:** EATON    **LONGITUDE:** -87.809788    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 39.068534    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 540.0    **LOGGED (FT.):** 798.5    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
167.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	373.0
49.0	CARBONDALE	DANVILLE	COAL	2.0	491.0
2.0	CARBONDALE	JAMESTOWN	COAL	-	538.0
-6.0	CARBONDALE	HERRIN	COAL	2.0	546.0
-68.0	CARBONDALE	SPRINGFIELD	COAL	3.0	608.0
-114.0	CARBONDALE	HOUCHIN CREEK	COAL	-	654.0
-216.0	CARBONDALE	COLCHESTER	COAL	-	756.0
-255.0	SPOON	SEELYVILLE	COAL	3.5	795.0

MAPID: 03301590000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 13 QUARTERS/FOOTAGES: 1362' S line, 10' W line of SE SE SE

QUADRANGLE: EATON LONGITUDE: -87.79931 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.045685 DATE COLLECTED:

SURFACE ELEVATION (FT.): 527.0 LOGGED (FT.): 783.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
174.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	353.0
57.0	CARBONDALE	DANVILLE	COAL	3.5	470.0
13.0	CARBONDALE	JAMESTOWN	COAL	-	514.0
6.0	CARBONDALE	HERRIN	COAL	3.5	521.0
-47.0	CARBONDALE	SPRINGFIELD	COAL	2.0	574.0
-129.0	CARBONDALE	HOUCHIN CREEK	COAL	-	656.0
-223.0	CARBONDALE	COLCHESTER	COAL	-	750.0
-251.0	SPOON	SEELYVILLE	COAL	5.5	778.0

MAPID: 03301777000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 13 QUARTERS/FOOTAGES: 330' N line, 660' E line

QUADRANGLE: EATON LONGITUDE: -87.799665 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.055829 DATE COLLECTED:

SURFACE ELEVATION (FT.): 531.0 LOGGED (FT.): 796.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
175.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	356.0
47.0	CARBONDALE	DANVILLE	COAL	3.5	484.0
1.0	CARBONDALE	JAMESTOWN	COAL	-	530.0
-7.0	CARBONDALE	HERRIN	COAL	4.0	538.0
-54.0	CARBONDALE	SPRINGFIELD	COAL	2.5	585.0
-128.0	CARBONDALE	HOUCHIN CREEK	COAL	-	659.0
-229.0	CARBONDALE	COLCHESTER	COAL	-	760.0
-259.0	SPOON	SEELYVILLE	COAL	6.0	790.0

MAPID: 03300343000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 17 QUARTERS/FOOTAGES: 820' S line, 1320' W line of SE

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.876353 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.044164 DATE COLLECTED:

SURFACE ELEVATION (FT.): 520.0 LOGGED (FT.): 696.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
206.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	314.0
99.0	CARBONDALE	DANVILLE	COAL	2.5	421.0
49.0	CARBONDALE	JAMESTOWN	COAL	-	471.0
40.0	CARBONDALE	HERRIN	COAL	-	480.0
2.0	CARBONDALE	SPRINGFIELD	COAL	-	518.0
-63.0	CARBONDALE	HOUCHIN CREEK	COAL	-	583.0
-176.0	CARBONDALE	COLCHESTER	COAL	-	696.0

MAPID: 03306089000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 17 QUARTERS/FOOTAGES: 1195' N line, 598' W line

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.888315 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.053433 DATE COLLECTED:

SURFACE ELEVATION (FT.): 511.0 LOGGED (FT.): 695.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
216.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	295.0
108.0	CARBONDALE	DANVILLE	COAL	4.0	403.0
53.0	CARBONDALE	HERRIN	COAL	-	458.0
13.0	CARBONDALE	SPRINGFIELD	COAL	-	498.0
-50.0	CARBONDALE	HOUCHIN CREEK	COAL	-	561.0
-161.0	CARBONDALE	COLCHESTER	COAL	-	672.0
-184.0	SPOON	SEELYVILLE	COAL	-	695.0



MAPID: 03300349000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 19 QUARTERS/FOOTAGES: NW SW SW  
 QUADRANGLE: OBLONG NORTH LONGITUDE: -87.908085 GEOLOGIST: C TREWORY  
 CONFIDENTIAL: N LATITUDE: 39.029601 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 501.0 LOGGED (FT.): 790.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
128.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	373.0
20.0	CARBONDALE	DANVILLE	COAL	-	481.0
-26.0	CARBONDALE	HERRIN	COAL	-	527.0
-76.0	CARBONDALE	SPRINGFIELD	COAL	-	577.0
-139.0	CARBONDALE	HOUCHIN CREEK	COAL	-	640.0
-256.0	CARBONDALE	COLCHESTER	COAL	-	757.0
-283.0	SPOON	SEELYVILLE	COAL	6.0	784.0

MAPID: 03307911000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 19 QUARTERS/FOOTAGES: 45' S line, 330' E line of NE NE  
 QUADRANGLE: OBLONG NORTH LONGITUDE: -87.891603 GEOLOGIST: C TREWORY  
 CONFIDENTIAL: N LATITUDE: 39.038348 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 509.0 LOGGED (FT.): 710.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
215.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	294.0
103.0	CARBONDALE	DANVILLE	COAL	2.0	406.0
63.0	CARBONDALE	JAMESTOWN	COAL	-	446.0
59.0	CARBONDALE	HERRIN	COAL	3.0	450.0
15.0	CARBONDALE	SPRINGFIELD	COAL	3.0	494.0
-47.0	CARBONDALE	HOUCHIN CREEK	COAL	-	556.0
-151.0	CARBONDALE	COLCHESTER	COAL	-	660.0
-198.0	SPOON	SEELYVILLE	COAL	3.0	707.0

MAPID: 03329989000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 20 QUARTERS/FOOTAGES: 660' S line, 450' W line of NE SW

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.884082 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.032658 DATE COLLECTED:

SURFACE ELEVATION (FT.): 512.0 LOGGED (FT.): 684.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
240.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	272.0
137.0	CARBONDALE	DANVILLE	COAL	2.5	375.0
83.0	CARBONDALE	JAMESTOWN	COAL	2.0	429.0
76.0	CARBONDALE	HERRIN	COAL	3.5	436.0
38.0	CARBONDALE	SPRINGFIELD	COAL	-	474.0
-20.0	CARBONDALE	HOUCHIN CREEK	COAL	-	532.0
-138.0	CARBONDALE	COLCHESTER	COAL	-	650.0
-166.0	SPOON	SEELYVILLE	COAL	6.0	678.0

MAPID: 03330156000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 20 QUARTERS/FOOTAGES: 660' S line, 660' W line of SW SE

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.878623 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.028952 DATE COLLECTED:

SURFACE ELEVATION (FT.): 514.0 LOGGED (FT.): 684.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
130.0	CARBONDALE	DANVILLE	COAL	3.0	384.0
84.0	CARBONDALE	JAMESTOWN	COAL	2.5	430.0
78.0	CARBONDALE	HERRIN	COAL	2.5	436.0
39.0	CARBONDALE	SPRINGFIELD	COAL	3.5	475.0
-131.0	CARBONDALE	COLCHESTER	COAL	-	645.0
-163.0	SPOON	SEELYVILLE	COAL	7.0	677.0

MAPID: 03308396000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 7N 13W    SECTION: 21    QUARTERS/FOOTAGES: 10' N line, 520' W line of SE SW

QUADRANGLE: EATON    LONGITUDE: -87.865074    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 39.030753    DATE COLLECTED:

SURFACE ELEVATION (FT.): 508.0    LOGGED (FT.): 744.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
181.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	327.0
68.0	CARBONDALE	DANVILLE	COAL	-	440.0
29.0	CARBONDALE	JAMESTOWN	COAL	-	479.0
22.0	CARBONDALE	HERRIN	COAL	-	486.0
-34.0	CARBONDALE	SPRINGFIELD	COAL	2.0	542.0
-84.0	CARBONDALE	HOUCHIN CREEK	COAL	-	592.0
-189.0	CARBONDALE	COLCHESTER	COAL	-	697.0
-233.0	SPOON	SEELYVILLE	COAL	3.0	741.0

MAPID: 03306217000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 7N 13W    SECTION: 22    QUARTERS/FOOTAGES: SW SE SE

QUADRANGLE: EATON    LONGITUDE: -87.837647    GEOLOGIST: C TREWORGY

CONFIDENTIAL: N    LATITUDE: 39.027985    DATE COLLECTED:

SURFACE ELEVATION (FT.): 501.0    LOGGED (FT.): 773.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
143.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	358.0
41.0	CARBONDALE	DANVILLE	COAL	4.0	460.0
-4.0	CARBONDALE	JAMESTOWN	COAL	-	505.0
-9.0	CARBONDALE	HERRIN	COAL	-	510.0
-56.0	CARBONDALE	SPRINGFIELD	COAL	2.5	557.0
-125.0	CARBONDALE	HOUCHIN CREEK	COAL	-	626.0
-224.0	CARBONDALE	COLCHESTER	COAL	-	725.0
-266.0	SPOON	SEELYVILLE	COAL	6.0	767.0

MAPID: 03301700000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 13W

SECTION: 23

QUARTERS/FOOTAGES: NW SE SE

QUADRANGLE: EATON

LONGITUDE: -87.818797

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.029793

DATE COLLECTED:

SURFACE ELEVATION (FT.): 521.0

LOGGED (FT.): 752.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
190.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	331.0
76.0	CARBONDALE	DANVILLE	COAL	4.0	445.0
31.0	CARBONDALE	JAMESTOWN	COAL	-	490.0
24.0	CARBONDALE	HERRIN	COAL	2.0	497.0
-27.0	CARBONDALE	SPRINGFIELD	COAL	3.5	548.0
-99.0	CARBONDALE	HOUCHIN CREEK	COAL	-	620.0
-198.0	CARBONDALE	COLCHESTER	COAL	-	719.0
-226.0	SPOON	SEELYVILLE	COAL	5.0	747.0

MAPID: 03300354000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 13W

SECTION: 24

QUARTERS/FOOTAGES: NW SW SE

QUADRANGLE: EATON

LONGITUDE: -87.804825

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.029911

DATE COLLECTED:

SURFACE ELEVATION (FT.): 540.0

LOGGED (FT.): 746.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
182.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	358.0
94.0	CARBONDALE	DANVILLE	COAL	2.5	446.0
47.0	CARBONDALE	JAMESTOWN	COAL	-	493.0
43.0	CARBONDALE	HERRIN	COAL	-	497.0
-12.0	CARBONDALE	SPRINGFIELD	COAL	-	552.0
-100.0	CARBONDALE	HOUCHIN CREEK	COAL	-	640.0
-174.0	CARBONDALE	COLCHESTER	COAL	-	714.0
-204.0	SPOON	SEELYVILLE	COAL	2.0	744.0

MAPID: 03301242000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 13W

SECTION: 26

QUARTERS/FOOTAGES: NE SE NW

QUADRANGLE: EATON

LONGITUDE: -87.825873

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 39.022468

DATE COLLECTED:

SURFACE ELEVATION (FT.): 514.0

LOGGED (FT.): 771.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
60.0	CARBONDALE	DANVILLE	COAL	3.5	454.0
12.0	CARBONDALE	JAMESTOWN	COAL	-	502.0
4.0	CARBONDALE	HERRIN	COAL	-	510.0
-49.0	CARBONDALE	SPRINGFIELD	COAL	-	563.0
-124.0	CARBONDALE	HOUCHIN CREEK	COAL	-	638.0
-229.0	CARBONDALE	COLCHESTER	COAL	-	743.0
-252.0	SPOON	SEELYVILLE	COAL	5.0	766.0

MAPID: 03307639000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 13W

SECTION: 27

QUARTERS/FOOTAGES: 660' N line, 330' E line of NW SE

QUADRANGLE: EATON

LONGITUDE: -87.840003

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 39.01791

DATE COLLECTED:

SURFACE ELEVATION (FT.): 486.0

LOGGED (FT.): 763.5

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
32.0	CARBONDALE	DANVILLE	COAL	2.0	454.0
-13.0	CARBONDALE	JAMESTOWN	COAL	-	499.0
-19.0	CARBONDALE	HERRIN	COAL	-	505.0
-74.0	CARBONDALE	SPRINGFIELD	COAL	-	560.0
-154.0	CARBONDALE	HOUCHIN CREEK	COAL	-	640.0
-249.0	CARBONDALE	COLCHESTER	COAL	-	735.0
-275.0	SPOON	SEELYVILLE	COAL	2.5	761.0

MAPID: 03300640000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 29 QUARTERS/FOOTAGES: NW NE SW

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.884377 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.018807 DATE COLLECTED:

SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 657.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
247.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	253.0
130.0	CARBONDALE	DANVILLE	COAL	4.0	370.0
89.0	CARBONDALE	JAMESTOWN	COAL	-	411.0
84.0	CARBONDALE	HERRIN	COAL	-	416.0
33.0	CARBONDALE	SPRINGFIELD	COAL	-	467.0
-10.0	CARBONDALE	HOUCHIN CREEK	COAL	-	510.0
-123.0	CARBONDALE	COLCHESTER	COAL	-	623.0
-152.0	SPOON	SEELYVILLE	COAL	5.5	652.0

MAPID: 03329979000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 29 QUARTERS/FOOTAGES: 599' S line, 722' E line of NE NW

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.883487 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.02509 DATE COLLECTED:

SURFACE ELEVATION (FT.): 508.0 LOGGED (FT.): 698.0 LOG TYPE: Nuclear Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
119.0	CARBONDALE	DANVILLE	COAL	4.0	389.0
76.0	CARBONDALE	JAMESTOWN	COAL	2.5	432.0
69.0	CARBONDALE	HERRIN	COAL	2.5	439.0
18.0	CARBONDALE	SPRINGFIELD	COAL	2.0	490.0
-37.0	CARBONDALE	HOUCHIN CREEK	COAL	-	545.0
-149.0	CARBONDALE	COLCHESTER	COAL	-	657.0
-184.0	SPOON	SEELYVILLE	COAL	6.0	692.0

MAPID: 03302554000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 30 QUARTERS/FOOTAGES: 659' S line, 659' W line of SE NE

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.89265 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.021548 DATE COLLECTED:

SURFACE ELEVATION (FT.): 505.0 LOGGED (FT.): 708.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
91.0	CARBONDALE	DANVILLE	COAL	-	414.0
47.0	CARBONDALE	JAMESTOWN	COAL	-	458.0
43.0	CARBONDALE	HERRIN	COAL	-	462.0
-8.0	CARBONDALE	SPRINGFIELD	COAL	-	513.0
-59.0	CARBONDALE	HOUCHIN CREEK	COAL	-	564.0
-170.0	CARBONDALE	COLCHESTER	COAL	-	675.0
-203.0	SPOON	SEELYVILLE	COAL	-	708.0

MAPID: 03302442000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 31 QUARTERS/FOOTAGES: NW NE NW

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.903215 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.011513 DATE COLLECTED:

SURFACE ELEVATION (FT.): 496.0 LOGGED (FT.): 810.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
124.0	MODESTO	TRIVOLI	SANDSTONE	82.0	372.0
2.0	CARBONDALE	DANVILLE	COAL	2.5	494.0
-43.0	CARBONDALE	JAMESTOWN	COAL	-	539.0
-46.0	CARBONDALE	HERRIN	COAL	-	542.0
-101.0	CARBONDALE	SPRINGFIELD	COAL	-	597.0
-163.0	CARBONDALE	HOUCHIN CREEK	COAL	-	659.0
-273.0	CARBONDALE	COLCHESTER	COAL	-	769.0
-310.0	SPOON	SEELYVILLE	COAL	4.5	806.0

MAPID: 03302772000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 31 QUARTERS/FOOTAGES: 430' S line, 870' W line of SE

QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.89646 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.998937 DATE COLLECTED:

SURFACE ELEVATION (FT.): 495.0 LOGGED (FT.): 732.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
47.0	CARBONDALE	DANVILLE	COAL	1.5	448.0
5.0	CARBONDALE	JAMESTOWN	COAL	-	490.0
1.0	CARBONDALE	HERRIN	COAL	-	494.0
-57.0	CARBONDALE	SPRINGFIELD	COAL	2.0	552.0
-105.0	CARBONDALE	HOUCHIN CREEK	COAL	-	600.0
-206.0	CARBONDALE	COLCHESTER	COAL	-	701.0
-234.0	SPOON	SEELYVILLE	COAL	3.0	729.0

MAPID: 03306341000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 32 QUARTERS/FOOTAGES: 185' S line, 344' W line of NW SE

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.879636 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.00183 DATE COLLECTED:

SURFACE ELEVATION (FT.): 485.0 LOGGED (FT.): 672.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
228.0	MODESTO	TRIVOLI	SANDSTONE	96.0	257.0
105.0	CARBONDALE	DANVILLE	COAL	2.0	380.0
63.0	CARBONDALE	JAMESTOWN	COAL	-	422.0
59.0	CARBONDALE	HERRIN	COAL	2.0	426.0
6.0	CARBONDALE	SPRINGFIELD	COAL	2.5	479.0
-61.0	CARBONDALE	HOUCHIN CREEK	COAL	-	546.0
-162.0	CARBONDALE	COLCHESTER	COAL	-	647.0
-181.0	SPOON	SEELYVILLE	COAL	6.5	666.0



MAPID: 03309132000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 32 QUARTERS/FOOTAGES: 686' N line, 666' E line of NW NE

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.878513 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.010421 DATE COLLECTED:

SURFACE ELEVATION (FT.): 495.0 LOGGED (FT.): 680.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
109.0	CARBONDALE	DANVILLE	COAL	1.5	386.0
67.0	CARBONDALE	JAMESTOWN	COAL	-	428.0
61.0	CARBONDALE	HERRIN	COAL	1.5	434.0
11.0	CARBONDALE	SPRINGFIELD	COAL	2.0	484.0
-54.0	CARBONDALE	HOUCHIN CREEK	COAL	-	549.0
-157.0	CARBONDALE	COLCHESTER	COAL	-	652.0
-185.0	SPOON	SEELYVILLE	COAL	-	680.0

MAPID: 03300363000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 13W SECTION: 33 QUARTERS/FOOTAGES: 1320' N line, 660' E line of SE

QUADRANGLE: EATON LONGITUDE: -87.855303 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.001315 DATE COLLECTED:

SURFACE ELEVATION (FT.): 488.0 LOGGED (FT.): 706.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
161.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	327.0
83.0	CARBONDALE	DANVILLE	COAL	2.0	405.0
41.0	CARBONDALE	JAMESTOWN	COAL	-	447.0
38.0	CARBONDALE	HERRIN	COAL	-	450.0
-16.0	CARBONDALE	SPRINGFIELD	COAL	3.0	504.0
-82.0	CARBONDALE	HOUCHIN CREEK	COAL	-	570.0
-215.0	SPOON	SEELYVILLE	COAL	3.5	703.0

MAPID: 03308197000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 13W

SECTION: 33

QUARTERS/FOOTAGES: SW SE NW

QUADRANGLE: EATON

LONGITUDE: -87.86569

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.005854

DATE COLLECTED:

SURFACE ELEVATION (FT.): 491.0

LOGGED (FT.): 687.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
189.0	MODESTO	TRIVOLI	SANDSTONE	58.0	302.0
105.0	CARBONDALE	DANVILLE	COAL	-	386.0
65.0	CARBONDALE	JAMESTOWN	COAL	-	426.0
61.0	CARBONDALE	HERRIN	COAL	-	430.0
6.0	CARBONDALE	SPRINGFIELD	COAL	1.5	485.0
-55.0	CARBONDALE	HOUCHIN CREEK	COAL	-	546.0
-196.0	SPOON	SEELYVILLE	COAL	-	687.0

MAPID: 03302506000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 13W

SECTION: 34

QUARTERS/FOOTAGES: 990' N line, 660' E line of SE

QUADRANGLE: EATON

LONGITUDE: -87.836452

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.002265

DATE COLLECTED:

SURFACE ELEVATION (FT.): 503.0

LOGGED (FT.): 727.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
161.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	342.0
71.0	CARBONDALE	DANVILLE	COAL	2.0	432.0
29.0	CARBONDALE	JAMESTOWN	COAL	-	474.0
25.0	CARBONDALE	HERRIN	COAL	-	478.0
-43.0	CARBONDALE	SPRINGFIELD	COAL	-	546.0
-112.0	CARBONDALE	HOUCHIN CREEK	COAL	-	615.0
-224.0	SPOON	SEELYVILLE	COAL	-	727.0

MAPID: 03300366000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 13W

SECTION: 36

QUARTERS/FOOTAGES: SW NW SW

QUADRANGLE: EATON

LONGITUDE: -87.814112

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.0023

DATE COLLECTED:

SURFACE ELEVATION (FT.): 493.0

LOGGED (FT.): 710.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
198.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	295.0
88.0	CARBONDALE	DANVILLE	COAL	3.5	405.0
40.0	CARBONDALE	JAMESTOWN	COAL	-	453.0
35.0	CARBONDALE	HERRIN	COAL	-	458.0
-21.0	CARBONDALE	SPRINGFIELD	COAL	2.5	514.0
-102.0	CARBONDALE	HOUCHIN CREEK	COAL	-	595.0
-189.0	CARBONDALE	COLCHESTER	COAL	-	682.0
-217.0	SPOON	SEELYVILLE	COAL	-	710.0

MAPID: 03300367000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 7N 13W

SECTION: 36

QUARTERS/FOOTAGES: 700' S line, 20' E line of SW NE

QUADRANGLE: EATON

LONGITUDE: -87.801232

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.007

DATE COLLECTED:

SURFACE ELEVATION (FT.): 518.0

LOGGED (FT.): 701.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
227.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	291.0
103.0	CARBONDALE	DANVILLE	COAL	2.5	415.0
56.0	CARBONDALE	JAMESTOWN	COAL	2.0	462.0
49.0	CARBONDALE	HERRIN	COAL	2.0	469.0
-3.0	CARBONDALE	SPRINGFIELD	COAL	2.0	521.0
-80.0	CARBONDALE	HOUCHIN CREEK	COAL	-	598.0
-183.0	CARBONDALE	COLCHESTER	COAL	-	701.0

MAPID: 03300911000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 7N 14W    SECTION: 1    QUARTERS/FOOTAGES: NW SE NW

QUADRANGLE: OBLONG NORTH    LONGITUDE: -87.923216    GEOLOGIST: C TREWORYG

CONFIDENTIAL: N    LATITUDE: 39.081267    DATE COLLECTED:

SURFACE ELEVATION (FT.): 514.0    LOGGED (FT.): 740.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
155.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	359.0
38.0	CARBONDALE	DANVILLE	COAL	-	476.0
12.0	CARBONDALE	JAMESTOWN	COAL	-	502.0
4.0	CARBONDALE	HERRIN	COAL	-	510.0
-39.0	CARBONDALE	SPRINGFIELD	COAL	2.5	553.0
-88.0	CARBONDALE	HOUCHIN CREEK	COAL	-	602.0
-196.0	CARBONDALE	COLCHESTER	COAL	-	710.0
-220.0	SPOON	SEELYVILLE	COAL	6.0	734.0

MAPID: 03324976000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 7N 14W    SECTION: 1    QUARTERS/FOOTAGES: 660' S line, 330' W line of SW

QUADRANGLE: OBLONG NORTH    LONGITUDE: -87.927669    GEOLOGIST: C TREWORYG

CONFIDENTIAL: N    LATITUDE: 39.072947    DATE COLLECTED:

SURFACE ELEVATION (FT.): 509.0    LOGGED (FT.): 753.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
161.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	348.0
45.0	CARBONDALE	DANVILLE	COAL	1.5	464.0
1.0	CARBONDALE	JAMESTOWN	COAL	-	508.0
-11.0	CARBONDALE	HERRIN	COAL	-	520.0
-41.0	CARBONDALE	SPRINGFIELD	COAL	2.0	550.0
-106.0	CARBONDALE	HOUCHIN CREEK	COAL	-	615.0
-209.0	CARBONDALE	COLCHESTER	COAL	-	718.0
-237.0	SPOON	SEELYVILLE	COAL	7.0	746.0

MAPID: 03307978000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 14W SECTION: 2 QUARTERS/FOOTAGES: 290' S line, 1040' E line of SE

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.932512 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.071334 DATE COLLECTED:

SURFACE ELEVATION (FT.): 509.0 LOGGED (FT.): 743.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
164.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	345.0
51.0	CARBONDALE	DANVILLE	COAL	2.0	458.0
9.0	CARBONDALE	JAMESTOWN	COAL	-	500.0
1.0	CARBONDALE	HERRIN	COAL	-	508.0
-39.0	CARBONDALE	SPRINGFIELD	COAL	2.0	548.0
-101.0	CARBONDALE	HOUCHIN CREEK	COAL	-	610.0
-204.0	CARBONDALE	COLCHESTER	COAL	-	713.0
-231.0	SPOON	SEELYVILLE	COAL	3.0	740.0

MAPID: 03307233000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 14W SECTION: 11 QUARTERS/FOOTAGES: 1335' N line, 60' E line of NW

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.937981 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.066015 DATE COLLECTED:

SURFACE ELEVATION (FT.): 503.0 LOGGED (FT.): 775.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
137.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	366.0
25.0	CARBONDALE	DANVILLE	COAL	1.5	478.0
-18.0	CARBONDALE	JAMESTOWN	COAL	-	521.0
-23.0	CARBONDALE	HERRIN	COAL	1.5	526.0
-63.0	CARBONDALE	SPRINGFIELD	COAL	2.0	566.0
-123.0	CARBONDALE	HOUCHIN CREEK	COAL	-	626.0
-240.0	CARBONDALE	COLCHESTER	COAL	-	743.0
-270.0	SPOON	SEELYVILLE	COAL	2.5	773.0

MAPID: 03307232000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 14W SECTION: 12 QUARTERS/FOOTAGES: 1295' N line, 1309' W line

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.924182 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.067616 DATE COLLECTED:

SURFACE ELEVATION (FT.): 491.0 LOGGED (FT.): 742.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
157.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	334.0
41.0	CARBONDALE	DANVILLE	COAL	-	450.0
-2.0	CARBONDALE	JAMESTOWN	COAL	-	493.0
-14.0	CARBONDALE	HERRIN	COAL	-	505.0
-49.0	CARBONDALE	SPRINGFIELD	COAL	2.0	540.0
-108.0	CARBONDALE	HOUCHIN CREEK	COAL	-	599.0
-226.0	CARBONDALE	COLCHESTER	COAL	-	717.0
-248.0	SPOON	SEELYVILLE	COAL	3.0	739.0

MAPID: 03307323000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 14W SECTION: 12 QUARTERS/FOOTAGES: 10' N line, 10' W line of SE SW

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.924066 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.060112 DATE COLLECTED:

SURFACE ELEVATION (FT.): 489.0 LOGGED (FT.): 744.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
152.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	337.0
37.0	CARBONDALE	DANVILLE	COAL	-	452.0
-16.0	CARBONDALE	JAMESTOWN	COAL	-	505.0
-21.0	CARBONDALE	HERRIN	COAL	-	510.0
-54.0	CARBONDALE	SPRINGFIELD	COAL	2.5	543.0
-115.0	CARBONDALE	HOUCHIN CREEK	COAL	-	604.0
-231.0	CARBONDALE	COLCHESTER	COAL	-	720.0
-253.0	SPOON	SEELYVILLE	COAL	2.0	742.0

MAPID: 03307420000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 14W SECTION: 13 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW NW

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.925159 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.055527 DATE COLLECTED:

SURFACE ELEVATION (FT.): 489.0 LOGGED (FT.): 752.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
139.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	350.0
22.0	CARBONDALE	DANVILLE	COAL	-	467.0
-24.0	CARBONDALE	HERRIN	COAL	-	513.0
-66.0	CARBONDALE	SPRINGFIELD	COAL	-	555.0
-128.0	CARBONDALE	HOUCHIN CREEK	COAL	-	617.0
-239.0	CARBONDALE	COLCHESTER	COAL	-	728.0
-261.0	SPOON	SEELYVILLE	COAL	2.0	750.0

MAPID: 03302533000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 14W SECTION: 14 QUARTERS/FOOTAGES: SW SW NW

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.945394 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.047436 DATE COLLECTED:

SURFACE ELEVATION (FT.): 501.0 LOGGED (FT.): 922.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
6.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	495.0
-106.0	CARBONDALE	DANVILLE	COAL	-	607.0
-169.0	CARBONDALE	HERRIN	COAL	-	670.0
-211.0	CARBONDALE	SPRINGFIELD	COAL	3.0	712.0
-278.0	CARBONDALE	HOUCHIN CREEK	COAL	-	779.0
-398.0	CARBONDALE	COLCHESTER	COAL	-	899.0
-419.0	SPOON	SEELYVILLE	COAL	2.0	920.0

MAPID: 03306489000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 14W SECTION: 24 QUARTERS/FOOTAGES: 30' N line, 330' E line  
 QUADRANGLE: OBLONG NORTH LONGITUDE: -87.91064 GEOLOGIST: C TREWORGY  
 CONFIDENTIAL: N LATITUDE: 39.039115 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 724.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
151.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	349.0
44.0	CARBONDALE	DANVILLE	COAL	-	456.0
-6.0	CARBONDALE	HERRIN	COAL	-	506.0
-51.0	CARBONDALE	SPRINGFIELD	COAL	-	551.0
-118.0	CARBONDALE	HOUCHIN CREEK	COAL	-	618.0
-224.0	CARBONDALE	COLCHESTER	COAL	-	724.0

MAPID: 03300626000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 7N 14W SECTION: 36 QUARTERS/FOOTAGES: SW SE SW  
 QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.92153 GEOLOGIST: C TREWORGY  
 CONFIDENTIAL: N LATITUDE: 38.996403 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 503.0 LOGGED (FT.): 875.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
74.0	MODESTO	TRIVOLI	SANDSTONE	70.0	429.0
-70.0	CARBONDALE	DANVILLE	COAL	2.5	573.0
-117.0	CARBONDALE	HERRIN	COAL	-	620.0
-155.0	CARBONDALE	SPRINGFIELD	COAL	2.5	658.0
-230.0	CARBONDALE	HOUCHIN CREEK	COAL	-	733.0
-333.0	CARBONDALE	COLCHESTER	COAL	-	836.0
-372.0	SPOON	SEELYVILLE	COAL	-	875.0



MAPID: 03390083000C    VERSION: 1

PROJECT: AMAX DATA

COUNTY: CRAWFORD    TWP/RNG: 8N 11W    SECTION: 5    QUARTERS/FOOTAGES: 1' S line, 1' W line of SW SW

QUADRANGLE: WEST UNION    LONGITUDE: -87.666304    GEOLOGIST: NORTH

CONFIDENTIAL: N    LATITUDE: 39.15771    DATE COLLECTED: 11 / 27 / 1968

SURFACE ELEVATION (FT.): 443.0    LOGGED (FT.): 710.9    LOG TYPE: Drillers Log

SOURCE: AYRSHIRE    E409    WELL TYPE: Coal Test

COMMENT: YORK BOX 33 CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
443.0	PLEISTOCENE		SAND	10.0	0.0	
433.0	PLEISTOCENE		GRAVEL	9.5	10.0	
423.5	PLEISTOCENE		HARD PAN	27.5	19.5	
396.0	BOND		SHALE	47.0	47.0	
349.0	BOND		SANDSTONE	1.0	94.0	
348.0	BOND		BLACK SHALE	1.5	95.0	
346.5	BOND		GRAY SHALE	50.5	96.5	
296.0	BOND		SANDSTONE	3.0	147.0	
293.0	BOND		GRAY SHALE	16.5	150.0	
276.5	BOND		LIMESTONE	2.2	166.5	
274.3	BOND		GRAY SHALE	44.3	168.7	
230.0	BOND	CARTHAGE	LIMESTONE	3.5	213.0	
226.5	MODESTO		SHALE	3.5	216.5	
223.0	MODESTO		BLACK SHALE	2.0	220.0	
221.0	MODESTO		GRAY SHALE	3.0	222.0	
218.0	MODESTO		SANDSTONE	5.0	225.0	
213.0	MODESTO		SANDY SHALE	73.5	230.0	
139.5	MODESTO	WEST FRANKLIN	LIMESTONE	2.8	303.5	
136.7	MODESTO	WEST FRANKLIN	SANDY SHALE	1.7	306.3	
135.0	MODESTO	WEST FRANKLIN	LIMESTONE	2.8	308.0	
132.2	MODESTO		SHALE	47.2	310.8	
85.0	MODESTO		SANDSTONE	35.0	358.0	
50.0	MODESTO		SHALE	4.3	393.0	
45.7	CARBONDALE	DANVILLE	COAL	3.9	397.3	
41.7	CARBONDALE		UNDERCLAY	3.5	401.3	
38.2	CARBONDALE		SHALE	1.8	404.8	
36.4	CARBONDALE		SANDSTONE	3.4	406.6	
33.0	CARBONDALE		GRAY SHALE	6.0	410.0	
27.0	CARBONDALE		SHALE	4.0	416.0	
23.0	CARBONDALE		DARK GRAY SHALE	15.4	420.0	W/LS NODS
7.6	CARBONDALE	JAMESTOWN	COAL	5.2	435.4	
2.4	CARBONDALE		BLACK SHALE	6.8	440.6	4 FT ERR IN THICK OR DEPTH AT THIS POINT
-4.4	CARBONDALE		DARK GRAY SHALE	36.6	447.4	
-41.0	CARBONDALE	BRIAR HILL	COAL	2.0	484.0	
-43.0	CARBONDALE		UNDERCLAY	3.0	486.0	
-46.0	CARBONDALE	SPRINGFIELD	COAL	3.5	489.0	
-49.5	CARBONDALE		UNDERCLAY	1.5	492.5	
-51.0	CARBONDALE		SOFT SHALE	10.0	494.0	
-61.0	CARBONDALE		SHALE	24.0	504.0	

-85.0	CARBONDALE		SANDSTONE	10.0	528.0	
-95.0	CARBONDALE		GRAY SHALE	36.6	538.0	
-131.6	CARBONDALE		BLACK SHALE	4.4	574.6	
-136.0	CARBONDALE		LIMESTONE	1.2	579.0	
-137.2	CARBONDALE		SHALE	0.8	580.2	
-138.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	581.0	
-140.0	CARBONDALE		UNDERCLAY	1.7	583.0	
-141.7	CARBONDALE		SHALE	1.3	584.7	START CORE
-143.0	CARBONDALE		SANDSTONE	53.7	586.0	
-196.7	CARBONDALE		SHALE	0.3	639.7	
-197.0	CARBONDALE		SANDSTONE	18.3	640.0	
-215.3	CARBONDALE		BLACK SHALE	1.7	658.3	
-217.0	CARBONDALE		VARRIGATED SHALE	5.8	660.0	
-222.8	CARBONDALE	MECCA QUARRY	BLACK SHALE	3.9	665.8	
-226.7	SPOON		SANDY SHALE	14.4	669.7	
-241.1	SPOON		SANDSTONE	6.4	684.1	
-247.5	SPOON		VARRIGATED SHALE	3.0	690.5	
-250.5	SPOON		DARK GRAY SHALE	6.5	693.5	
-257.0	SPOON	SEELYVILLE	COAL	8.2	700.0	
-265.2	SPOON		UNDERCLAY	2.8	708.2	

MAPID: 03300672000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 8N 11W    SECTION: 18    QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: WEST UNION    LONGITUDE: -87.668041    GEOLOGIST: C TREWORYG

CONFIDENTIAL: N    LATITUDE: 39.142413    DATE COLLECTED:

SURFACE ELEVATION (FT.): 457.0    LOGGED (FT.): 694.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	UNIT OVERBURDEN	COMMENT
36.0	CARBONDALE	DANVILLE	COAL	2.5	421.0	
0.0	CARBONDALE	JAMESTOWN	COAL	-	457.0	
-10.0	CARBONDALE	HERRIN	COAL	-	467.0	
-58.0	CARBONDALE	SPRINGFIELD	COAL	3.0	515.0	
-147.0	CARBONDALE	HOUCHIN CREEK	COAL	-	604.0	
-237.0	CARBONDALE	COLCHESTER	COAL	-	694.0	

MAPID: 03302515000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 11W

SECTION: 34

QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: HUTSONVILLE

LONGITUDE: -87.628434

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.098992

DATE COLLECTED:

SURFACE ELEVATION (FT.): 429.0

LOGGED (FT.): 664.5

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
172.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	257.0
72.0	CARBONDALE	DANVILLE	COAL	2.5	357.0
31.0	CARBONDALE	JAMESTOWN	COAL	-	398.0
22.0	CARBONDALE	HERRIN	COAL	-	407.0
-23.0	CARBONDALE	SPRINGFIELD	COAL	-	452.0
-123.0	CARBONDALE	HOUCHIN CREEK	COAL	-	552.0
-203.0	CARBONDALE	COLCHESTER	COAL	-	632.0
-230.0	SPOON	SEELYVILLE	COAL	5.5	659.0

MAPID: 03300610000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 12W

SECTION: 1

QUARTERS/FOOTAGES: SW SE SE

QUADRANGLE: WEST UNION

LONGITUDE: -87.687804

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.158777

DATE COLLECTED:

SURFACE ELEVATION (FT.): 504.0

LOGGED (FT.): 646.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
147.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	357.0
43.0	CARBONDALE	DANVILLE	COAL	2.5	461.0
8.0	CARBONDALE	JAMESTOWN	COAL	-	496.0
-2.0	CARBONDALE	HERRIN	COAL	-	506.0
-52.0	CARBONDALE	SPRINGFIELD	COAL	2.5	556.0
-142.0	CARBONDALE	HOUCHIN CREEK	COAL	-	646.0

MAPID: 03333024000C VERSION: 1

PROJECT: ISGS96

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 3 QUARTERS/FOOTAGES: NE SW SW

QUADRANGLE: WEST UNION LONGITUDE: -87.736494 GEOLOGIST: C.TREWORGY

CONFIDENTIAL: N LATITUDE: 39.160625 DATE COLLECTED: 8 / 19 / 1981

SURFACE ELEVATION (FT.): 515.0 LOGGED (FT.): 822.0 LOG TYPE: Multiple log types

SOURCE: FREEMAN UNITED HV-3-81 WELL TYPE: Coal Test

COMMENT: CORE, GAMMA, DENSITY, RESISTIVITY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
115.0	MODESTO		COAL	2.0	400.0	MEASURED FROM GEOPHYSICAL LOG
39.9	CARBONDALE	DANVILLE	COAL	4.0	475.1	MEASURED FROM GEOPHYSICAL LOG
1.4	CARBONDALE	JAMESTOWN	COAL	5.6	513.6	MEASURED FROM GEOPHYSICAL LOG
-10.0	CARBONDALE	HERRIN	COAL	2.0	525.0	MEASURED FROM GEOPHYSICAL LOG
-58.9	CARBONDALE	BRIAR HILL	COAL	2.0	573.9	MEASURED FROM GEOPHYSICAL LOG
-63.0	CARBONDALE	SPRINGFIELD	COAL	3.6	578.0	MEASURED FROM GEOPHYSICAL LOG
-155.0	CARBONDALE	HOUCHIN CREEK	COAL	2.1	670.0	MEASURED FROM GEOPHYSICAL LOG
-199.5	CARBONDALE	SURVANT	COAL	1.5	714.5	MEASURED FROM GEOPHYSICAL LOG
-240.4	CARBONDALE	COLCHESTER	COAL	1.5	755.4	MEASURED FROM GEOPHYSICAL LOG
-274.6	SPOON	SEELYVILLE	COAL	2.1	789.6	MEASURED FROM CORE
-276.6	SPOON	SEELYVILLE	CLAYSTONE & SILTSTONE	1.9	791.6	MEASURED FROM CORE
-278.4	SPOON	SEELYVILLE	COAL	6.4	793.4	MEASURED FROM CORE
-284.8	SPOON		CLAYSTONE & SILTSTONE	0.4	799.8	MEASURED FROM CORE
-285.2	SPOON		SHALE	2.4	800.2	MEASURED FROM CORE

MAPID: 03300447000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 4 QUARTERS/FOOTAGES: 374' N line, 330' W line of NE NW SW

QUADRANGLE: ANNAPOLIS LONGITUDE: -87.757916 GEOLOGIST: C.TREWORGY

CONFIDENTIAL: N LATITUDE: 39.168365 DATE COLLECTED:

SURFACE ELEVATION (FT.): 546.0 LOGGED (FT.): 785.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
182.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	364.0	
78.0	CARBONDALE	DANVILLE	COAL	4.5	468.0	
39.0	CARBONDALE	JAMESTOWN	COAL	-	507.0	
26.0	CARBONDALE	HERRIN	COAL	2.0	520.0	
-21.0	CARBONDALE	SPRINGFIELD	COAL	3.5	567.0	
-103.0	CARBONDALE	HOUCHIN CREEK	COAL	-	649.0	
-194.0	CARBONDALE	COLCHESTER	COAL	-	740.0	
-232.0	SPOON	SEELYVILLE	COAL	7.0	778.0	

MAPID: 03300448000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 4 QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: ANNAPOLIS LONGITUDE: -87.750914 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.170657 DATE COLLECTED:

SURFACE ELEVATION (FT.): 539.0 LOGGED (FT.): 800.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
169.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	370.0
63.0	CARBONDALE	DANVILLE	COAL	3.0	476.0
23.0	CARBONDALE	JAMESTOWN	COAL	-	516.0
13.0	CARBONDALE	HERRIN	COAL	-	526.0
-39.0	CARBONDALE	SPRINGFIELD	COAL	2.5	578.0
-120.0	CARBONDALE	HOUCHIN CREEK	COAL	-	659.0
-213.0	CARBONDALE	COLCHESTER	COAL	-	752.0
-255.0	SPOON	SEELYVILLE	COAL	6.0	794.0

MAPID: 03300488000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 5 QUARTERS/FOOTAGES: NE NE SE

QUADRANGLE: ANNAPOLIS LONGITUDE: -87.762599 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.168167 DATE COLLECTED:

SURFACE ELEVATION (FT.): 557.0 LOGGED (FT.): 804.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
182.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	375.0
67.0	CARBONDALE	DANVILLE	COAL	3.0	490.0
28.0	CARBONDALE	JAMESTOWN	COAL	-	529.0
17.0	CARBONDALE	HERRIN	COAL	2.0	540.0
-30.0	CARBONDALE	SPRINGFIELD	COAL	2.5	587.0
-108.0	CARBONDALE	HOUCHIN CREEK	COAL	-	665.0
-203.0	CARBONDALE	COLCHESTER	COAL	-	760.0
-240.0	SPOON	SEELYVILLE	COAL	7.0	797.0

MAPID: 0330044600C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 8 QUARTERS/FOOTAGES: NW SE SW

QUADRANGLE: ANNAPOLIS LONGITUDE: -87.773558 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.147876 DATE COLLECTED:

SURFACE ELEVATION (FT.): 566.0 LOGGED (FT.): 846.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
141.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	425.0
39.0	CARBONDALE	DANVILLE	COAL	3.5	527.0
-1.0	CARBONDALE	JAMESTOWN	COAL	-	567.0
-14.0	CARBONDALE	HERRIN	COAL	1.5	580.0
-62.0	CARBONDALE	SPRINGFIELD	COAL	3.5	628.0
-144.0	CARBONDALE	HOUCHIN CREEK	COAL	-	710.0
-244.0	CARBONDALE	COLCHESTER	COAL	-	810.0
-272.0	SPOON	SEELYVILLE	COAL	8.0	838.0

MAPID: 0330651300C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 9 QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: ANNAPOLIS LONGITUDE: -87.760141 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.158939 DATE COLLECTED:

SURFACE ELEVATION (FT.): 521.0 LOGGED (FT.): 779.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
173.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	348.0
71.0	CARBONDALE	DANVILLE	COAL	3.0	450.0
30.0	CARBONDALE	JAMESTOWN	COAL	-	491.0
20.0	CARBONDALE	HERRIN	COAL	1.5	501.0
-31.0	CARBONDALE	SPRINGFIELD	COAL	2.5	552.0
-112.0	CARBONDALE	HOUCHIN CREEK	COAL	-	633.0
-209.0	CARBONDALE	COLCHESTER	COAL	-	730.0
-253.0	SPOON	SEELYVILLE	COAL	5.0	774.0

MAPID: 03300005000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 11 QUARTERS/FOOTAGES: SW NE NW

QUADRANGLE: WEST UNION LONGITUDE: -87.715588 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.155094 DATE COLLECTED:

SURFACE ELEVATION (FT.): 515.0 LOGGED (FT.): 829.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
129.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	386.0
28.0	CARBONDALE	DANVILLE	COAL	5.0	487.0
-11.0	CARBONDALE	JAMESTOWN	COAL	-	526.0
-21.0	CARBONDALE	HERRIN	COAL	-	536.0
-74.0	CARBONDALE	SPRINGFIELD	COAL	2.5	589.0
-159.0	CARBONDALE	HOUCHIN CREEK	COAL	-	674.0
-245.0	CARBONDALE	COLCHESTER	COAL	-	760.0
-309.0	SPOON	SEELYVILLE	COAL	5.0	824.0

MAPID: 03300005000C VERSION: 2

PROJECT: CONTROL

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 11 QUARTERS/FOOTAGES: SW NE NW

QUADRANGLE: WEST UNION LONGITUDE: -87.715588 GEOLOGIST: HINES

CONFIDENTIAL: N LATITUDE: 39.155094 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 2899.0 LOG TYPE: Survey Sample Study

SOURCE: KROHN, WM. H. WELL TYPE: Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			NO RECORD	0.0	0.0

MAPID: 03333025000C VERSION: 1

PROJECT: ISGS96

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 14 QUARTERS/FOOTAGES: NE SE NE SW

QUADRANGLE: WEST UNION LONGITUDE: -87.712931 GEOLOGIST: C.TREWORY

CONFIDENTIAL: N LATITUDE: 39.133652 DATE COLLECTED: 9 / 16 / 1981

SURFACE ELEVATION (FT.): 505.0 LOGGED (FT.): 850.0 LOG TYPE: Multiple log types

SOURCE: FREEMAN UNITED HV-5-81 WELL TYPE: Coal Test

COMMENT: CORE, GAMMA, DENSITY, RESISTIVITY LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
505.0			UNCONSOLIDATED	38.0	0.0	
-0.3	CARBONDALE	DANVILLE	COAL	3.2	505.3	MEASURED FROM GEOPHYSICAL LOG
-39.1	CARBONDALE	JAMESTOWN	COAL	3.9	544.1	MEASURED FROM GEOPHYSICAL LOG
-51.0	CARBONDALE	HERRIN	COAL	2.0	556.0	MEASURED FROM GEOPHYSICAL LOG
-103.6	CARBONDALE	SPRINGFIELD	COAL	4.0	608.6	MEASURED FROM GEOPHYSICAL LOG
-203.3	CARBONDALE	HOUCHIN CREEK	COAL	1.7	708.3	MEASURED FROM GEOPHYSICAL LOG
-226.0	CARBONDALE	SURVANT - UPPER	COAL	2.6	731.0	MEASURED FROM GEOPHYSICAL LOG
-235.0	CARBONDALE	SURVANT - LOWER	COAL	2.0	740.0	MEASURED FROM GEOPHYSICAL LOG
-279.6	CARBONDALE	COLCHESTER	COAL	1.0	784.6	MEASURED FROM GEOPHYSICAL LOG
-304.8	SPOON	SEELYVILLE	COAL	2.2	809.8	MEASURED FROM GEOPHYSICAL LOG
-307.0	SPOON	SEELYVILLE	SHALE	1.0	812.0	MEASURED FROM GEOPHYSICAL LOG
-308.0	SPOON	SEELYVILLE	COAL	5.0	813.0	MEASURED FROM GEOPHYSICAL LOG



MAPID: 03333026000C VERSION: 1

PROJECT: ISGS96

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 16 QUARTERS/FOOTAGES: NE NE NW

QUADRANGLE: ANNAPOLIS LONGITUDE: -87.750653 GEOLOGIST: C.TREWORGY

CONFIDENTIAL: N LATITUDE: 39.142501 DATE COLLECTED: 9 / 3 / 1981

SURFACE ELEVATION (FT.): 551.0 LOGGED (FT.): 855.0 LOG TYPE: Multiple log types

SOURCE: FREEMAN UNITED HV-4-81 WELL TYPE: Coal Test

COMMENT: CORE, GAMMA, DENSITY, RESISTIVITY LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
42.0	CARBONDALE	DANVILLE	COAL	1.8	509.0	MEASURED FROM GEOPHYSICAL LOG
40.2	CARBONDALE	DANVILLE	SHALE	0.2	510.8	MEASURED FROM GEOPHYSICAL LOG
40.0	CARBONDALE	DANVILLE	COAL	2.1	511.0	MEASURED FROM GEOPHYSICAL LOG
0.2	CARBONDALE	JAMESTOWN	COAL	3.8	550.8	MEASURED FROM GEOPHYSICAL LOG
-11.7	CARBONDALE	HERRIN	COAL	2.1	562.7	MEASURED FROM GEOPHYSICAL LOG
-60.3	CARBONDALE	BRIAR HILL	COAL	1.3	611.3	MEASURED FROM GEOPHYSICAL LOG
-65.0	CARBONDALE	SPRINGFIELD	COAL	3.1	616.0	MEASURED FROM GEOPHYSICAL LOG
-157.0	CARBONDALE	HOUCHIN CREEK	COAL	1.8	708.0	MEASURED FROM GEOPHYSICAL LOG
-200.8	CARBONDALE	SURVANT - UPPER	COAL	0.4	751.8	MEASURED FROM GEOPHYSICAL LOG
-204.0	CARBONDALE	SURVANT - LOWER	COAL	2.2	755.0	MEASURED FROM GEOPHYSICAL LOG
-247.0	CARBONDALE	COLCHESTER	COAL	1.6	798.0	MEASURED FROM GEOPHYSICAL LOG
-269.0	SPOON		SILTSTONE	2.6	820.0	MEASURED FROM CORE
-271.6	SPOON	SEELYVILLE	COAL	1.9	822.6	MEASURED FROM CORE
-273.5	SPOON	SEELYVILLE	CLAYSTONE & SILTSTONE	3.6	824.5	MEASURED FROM CORE
-277.0	SPOON	SEELYVILLE	COAL	7.0	828.0	MEASURED FROM CORE
-284.0	SPOON		CLAYSTONE & SILTSTONE	0.1	835.0	MEASURED FROM CORE

MAPID: 03300542000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 17 QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: ANNAPOLIS LONGITUDE: -87.766295 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.131569 DATE COLLECTED:

SURFACE ELEVATION (FT.): 581.0 LOGGED (FT.): 705.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		
				UNIT	OVERBURDEN	COMMENT
167.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	414.0	
63.0	CARBONDALE	DANVILLE	COAL	3.0	518.0	
25.0	CARBONDALE	JAMESTOWN	COAL	-	556.0	
12.0	CARBONDALE	HERRIN	COAL	2.0	569.0	
-38.0	CARBONDALE	SPRINGFIELD	COAL	3.0	619.0	
-124.0	CARBONDALE	HOUCHIN CREEK	COAL	-	705.0	

MAPID: 03302236000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 17 QUARTERS/FOOTAGES: 165' S line, 165' E line of NW NW

QUADRANGLE: ANNAPOLIS LONGITUDE: -87.775125 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.141894 DATE COLLECTED:

SURFACE ELEVATION (FT.): 575.0 LOGGED (FT.): 804.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
165.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	410.0
61.0	CARBONDALE	DANVILLE	COAL	-	514.0
22.0	CARBONDALE	JAMESTOWN	COAL	-	553.0
10.0	CARBONDALE	HERRIN	COAL	-	565.0
-39.0	CARBONDALE	SPRINGFIELD	COAL	-	614.0
-112.0	CARBONDALE	HOUCHIN CREEK	COAL	-	687.0
-217.0	CARBONDALE	COLCHESTER	COAL	-	792.0
-229.0	SPOON	SEELYVILLE	COAL	-	804.0

MAPID: 03301755000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 18 QUARTERS/FOOTAGES: NE NE SE

QUADRANGLE: ANNAPOLIS LONGITUDE: -87.780272 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.136837 DATE COLLECTED:

SURFACE ELEVATION (FT.): 567.0 LOGGED (FT.): 792.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
157.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	410.0
11.0	CARBONDALE	JAMESTOWN	COAL	-	556.0
-3.0	CARBONDALE	HERRIN	COAL	1.5	570.0
-53.0	CARBONDALE	SPRINGFIELD	COAL	-	620.0
-142.0	CARBONDALE	HOUCHIN CREEK	COAL	-	709.0
-225.0	CARBONDALE	COLCHESTER	COAL	-	792.0

MAPID: 03300372000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 20 QUARTERS/FOOTAGES: 660' N line, 660' W line of NE

QUADRANGLE: ANNAPOLIS LONGITUDE: -87.767315 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.128826 DATE COLLECTED:

SURFACE ELEVATION (FT.): 579.0 LOGGED (FT.): 846.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
165.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	414.0
60.0	CARBONDALE	DANVILLE	COAL	3.0	519.0
21.0	CARBONDALE	JAMESTOWN	COAL	-	558.0
7.0	CARBONDALE	HERRIN	COAL	-	572.0
-43.0	CARBONDALE	SPRINGFIELD	COAL	2.5	622.0
-130.0	CARBONDALE	HOUCHIN CREEK	COAL	-	709.0
-226.0	CARBONDALE	COLCHESTER	COAL	-	805.0
-262.0	SPOON	SEELYVILLE	COAL	5.0	841.0

MAPID: 03301975000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 20 QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: EATON LONGITUDE: -87.770554 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.124254 DATE COLLECTED:

SURFACE ELEVATION (FT.): 580.0 LOGGED (FT.): 788.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
165.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	415.0
60.0	CARBONDALE	DANVILLE	COAL	-	520.0
23.0	CARBONDALE	JAMESTOWN	COAL	-	557.0
7.0	CARBONDALE	HERRIN	COAL	-	573.0
-42.0	CARBONDALE	SPRINGFIELD	COAL	2.5	622.0
-127.0	CARBONDALE	HOUCHIN CREEK	COAL	-	707.0
-208.0	CARBONDALE	COLCHESTER	COAL	-	788.0

MAPID: 03333027000C VERSION: 1

PROJECT: ISGS96

COUNTY: CRAWFORD

TWP/RNG: 8N 12W

SECTION: 22

QUARTERS/FOOTAGES: NW SE NW SW

QUADRANGLE: HUTSONVILLE

LONGITUDE: -87.737702

GEOLOGIST: C.TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.119519

DATE COLLECTED: 8 / 18 / 1981

SURFACE ELEVATION (FT.): 522.0

LOGGED (FT.): 826.0

LOG TYPE: Multiple log types

SOURCE: FREEMAN UNITED HV-2-81

WELL TYPE: Coal Test

COMMENT: CORE, GAMMA, DENSITY, RESISTIVITY LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
27.0	MODESTO		SILTSTONE	11.0	495.0	MEASURED FROM CORE
16.0	MODESTO		SILTY SHALE	4.7	506.0	MEASURED FROM CORE
11.3	MODESTO		GRAY SHALE	0.6	510.7	MEASURED FROM CORE
10.7	CARBONDALE	DANVILLE	COAL	3.4	511.3	MEASURED FROM CORE
7.3	CARBONDALE		CLAYSTONE & SILTSTONE	2.5	514.7	MEASURED FROM CORE
-29.0	CARBONDALE	JAMESTOWN	COAL	3.5	551.0	MEASURED FROM GEOPHYSICAL LOG
-41.4	CARBONDALE	HERRIN	COAL	1.8	563.4	MEASURED FROM GEOPHYSICAL LOG
-98.0	CARBONDALE	SPRINGFIELD	COAL	3.5	620.0	MEASURED FROM GEOPHYSICAL LOG
-186.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	708.0	MEASURED FROM GEOPHYSICAL LOG
-241.6	CARBONDALE	SURVANT - UPPER	COAL	0.4	763.6	MEASURED FROM GEOPHYSICAL LOG
-243.9	CARBONDALE	SURVANT - LOWER	COAL	2.3	765.9	MEASURED FROM GEOPHYSICAL LOG
-287.2	CARBONDALE	COLCHESTER	COAL	0.8	809.2	MEASURED FROM GEOPHYSICAL LOG
-306.0	SPOON		GRAY SHALE	0.9	828.0	MEASURED FROM CORE
-306.9	SPOON	SEELYVILLE	COAL	2.5	828.9	MEASURED FROM CORE
-309.4	SPOON	SEELYVILLE	GRAY SHALE	1.1	831.4	MEASURED FROM CORE
-310.5	SPOON	SEELYVILLE	COAL	5.0	832.5	MEASURED FROM CORE
-315.5	SPOON		CLAYSTONE & SILTSTONE	0.6	837.5	MEASURED FROM CORE
-316.1	SPOON		GRAY SHALE	2.6	838.1	MEASURED FROM CORE

MAPID: 03333028000C VERSION: 1

PROJECT: ISGS96

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 24 QUARTERS/FOOTAGES: SE SW NW

QUADRANGLE: HUTSONVILLE LONGITUDE: -87.69971 GEOLOGIST: C.TREWORGY

CONFIDENTIAL: N LATITUDE: 39.122366 DATE COLLECTED: 8 / 12 / 1981

SURFACE ELEVATION (FT.): 505.0 LOGGED (FT.): 850.0 LOG TYPE: Gamma Ray Density

SOURCE: FREEMAN UNITED HV-1-81 WELL TYPE: Coal Test

COMMENT: GAMMA, DENSITY, RESISTIVITY LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
19.2	CARBONDALE	DANVILLE	COAL	4.0	485.8
-20.0	CARBONDALE	JAMESTOWN	COAL	3.6	525.0
-31.0	CARBONDALE	HERRIN	COAL	1.7	536.0
-84.5	CARBONDALE	SPRINGFIELD	COAL	3.3	589.5
-128.8	CARBONDALE	HOUCHIN CREEK	COAL	1.0	633.8
-204.0	CARBONDALE	SURVANT - UPPER	COAL	1.8	709.0
-218.8	CARBONDALE	SURVANT - LOWER	COAL	2.2	723.8
-262.0	CARBONDALE	COLCHESTER	COAL	1.5	767.0
-296.0	SPOON	SEELYVILLE	COAL	2.9	801.0
-298.9	SPOON	SEELYVILLE	SHALE	0.9	803.9
-299.8	SPOON	SEELYVILLE	COAL	4.8	804.8

MAPID: 03302879000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 28 QUARTERS/FOOTAGES: SW SE NE

QUADRANGLE: HUTSONVILLE LONGITUDE: -87.744305 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.108257 DATE COLLECTED:

SURFACE ELEVATION (FT.): 543.0 LOGGED (FT.): 833.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
97.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	446.0
13.0	CARBONDALE	DANVILLE	COAL	-	530.0
-25.0	CARBONDALE	JAMESTOWN	COAL	-	568.0
-37.0	CARBONDALE	HERRIN	COAL	-	580.0
-104.0	CARBONDALE	SPRINGFIELD	COAL	-	647.0
-177.0	CARBONDALE	HOUCHIN CREEK	COAL	-	720.0
-290.0	CARBONDALE	COLCHESTER	COAL	-	833.0

MAPID: 03306531000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 12W

SECTION: 28

QUARTERS/FOOTAGES: SE NW SW

QUADRANGLE: EATON

LONGITUDE: -87.75585

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.104559

DATE COLLECTED:

SURFACE ELEVATION (FT.): 559.0

LOGGED (FT.): 844.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
133.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	426.0
28.0	CARBONDALE	DANVILLE	COAL	3.0	531.0
-17.0	CARBONDALE	JAMESTOWN	COAL	-	576.0
-33.0	CARBONDALE	HERRIN	COAL	-	592.0
-85.0	CARBONDALE	SPRINGFIELD	COAL	-	644.0
-167.0	CARBONDALE	HOUCHIN CREEK	COAL	-	726.0
-263.0	CARBONDALE	COLCHESTER	COAL	-	822.0
-281.0	SPOON	SEELYVILLE	COAL	4.0	840.0

MAPID: 03301814000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 12W

SECTION: 29

QUARTERS/FOOTAGES: NE SW NW

QUADRANGLE: EATON

LONGITUDE: -87.774943

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.111417

DATE COLLECTED:

SURFACE ELEVATION (FT.): 573.0

LOGGED (FT.): 839.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
151.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	422.0
47.0	CARBONDALE	DANVILLE	COAL	3.0	526.0
3.0	CARBONDALE	JAMESTOWN	COAL	-	570.0
-12.0	CARBONDALE	HERRIN	COAL	1.5	585.0
-58.0	CARBONDALE	SPRINGFIELD	COAL	2.5	631.0
-141.0	CARBONDALE	HOUCHIN CREEK	COAL	-	714.0
-235.0	CARBONDALE	COLCHESTER	COAL	-	808.0
-262.0	SPOON	SEELYVILLE	COAL	4.0	835.0

**MAPID:** 03329821000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 8N 12W    **SECTION:** 30    **QUARTERS/FOOTAGES:** SW SW NW  
**QUADRANGLE:** EATON    **LONGITUDE:** -87.79604    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 39.109259    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 551.0    **LOGGED (FT.):** 802.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
167.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	384.0
60.0	CARBONDALE	DANVILLE	COAL	-	491.0
21.0	CARBONDALE	JAMESTOWN	COAL	-	530.0
6.0	CARBONDALE	HERRIN	COAL	-	545.0
-39.0	CARBONDALE	SPRINGFIELD	COAL	-	590.0
-116.0	CARBONDALE	HOUCHIN CREEK	COAL	-	667.0
-211.0	CARBONDALE	COLCHESTER	COAL	-	762.0
-251.0	SPOON	SEELYVILLE	COAL	-	802.0

**MAPID:** 03307263000C    **VERSION:** 1    **PROJECT:** CGT-ECILL  
**COUNTY:** CRAWFORD    **TWP/RNG:** 8N 12W    **SECTION:** 31    **QUARTERS/FOOTAGES:** 660' N line, 660' E line of SW  
**QUADRANGLE:** EATON    **LONGITUDE:** -87.79    **GEOLOGIST:** C TREWORY  
**CONFIDENTIAL:** N    **LATITUDE:** 39.091828    **DATE COLLECTED:**  
**SURFACE ELEVATION (FT.):** 545.0    **LOGGED (FT.):** 792.0    **LOG TYPE:** Electric Log  
**SOURCE:**    **WELL TYPE:** Oil and Gas Test  
**COMMENT:** FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
175.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	370.0
65.0	CARBONDALE	DANVILLE	COAL	-	480.0
23.0	CARBONDALE	JAMESTOWN	COAL	-	522.0
8.0	CARBONDALE	HERRIN	COAL	-	537.0
-43.0	CARBONDALE	SPRINGFIELD	COAL	-	588.0
-120.0	CARBONDALE	HOUCHIN CREEK	COAL	-	665.0
-228.0	CARBONDALE	COLCHESTER	COAL	-	773.0
-247.0	SPOON	SEELYVILLE	COAL	-	792.0

MAPID: 03330019000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 12W

SECTION: 32

QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: EATON

LONGITUDE: -87.765099

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.094845

DATE COLLECTED:

SURFACE ELEVATION (FT.): 592.0

LOGGED (FT.): 869.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
142.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	450.0
38.0	CARBONDALE	DANVILLE	COAL	-	554.0
-8.0	CARBONDALE	JAMESTOWN	COAL	-	600.0
-22.0	CARBONDALE	HERRIN	COAL	-	614.0
-77.0	CARBONDALE	SPRINGFIELD	COAL	-	669.0
-155.0	CARBONDALE	HOUCHIN CREEK	COAL	-	747.0
-259.0	CARBONDALE	COLCHESTER	COAL	-	851.0
-277.0	SPOON	SEELYVILLE	COAL	-	869.0

MAPID: 03300445000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 12W

SECTION: 33

QUARTERS/FOOTAGES: SE NW NE

QUADRANGLE: HUTSONVILLE

LONGITUDE: -87.746667

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.097314

DATE COLLECTED:

SURFACE ELEVATION (FT.): 548.0

LOGGED (FT.): 841.0

LOG TYPE: Electric Log

SOURCE: CHANEY D

GRIFFITH 1

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
112.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	436.0
6.0	CARBONDALE	DANVILLE	COAL	2.5	542.0
-38.0	CARBONDALE	JAMESTOWN	COAL	-	586.0
-52.0	CARBONDALE	HERRIN	COAL	2.0	600.0
-110.0	CARBONDALE	SPRINGFIELD	COAL	-	658.0
-293.0	SPOON	SEELYVILLE	COAL	-	841.0



MAPID: 03330544000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 12W SECTION: 35 QUARTERS/FOOTAGES: SE SE NW  
 QUADRANGLE: HUTSONVILLE LONGITUDE: -87.713958 GEOLOGIST: C TREWORY  
 CONFIDENTIAL: N LATITUDE: 39.093626 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 504.0 LOGGED (FT.): 808.0 LOG TYPE: Nuclear Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
14.0	CARBONDALE	DANVILLE	COAL	3.0	490.0
-24.0	CARBONDALE	JAMESTOWN	COAL	2.5	528.0
-34.0	CARBONDALE	HERRIN	COAL	2.0	538.0
-90.0	CARBONDALE	SPRINGFIELD	COAL	2.5	594.0
-172.0	CARBONDALE	HOUCHIN CREEK	COAL	-	676.0
-276.0	CARBONDALE	COLCHESTER	COAL	-	780.0
-299.0	SPOON	SEELYVILLE	COAL	5.0	803.0

MAPID: 03300779000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 13W SECTION: 1 QUARTERS/FOOTAGES: SE SE SW  
 QUADRANGLE: ANNAPOLIS LONGITUDE: -87.808931 GEOLOGIST: C TREWORY  
 CONFIDENTIAL: N LATITUDE: 39.160653 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 559.0 LOGGED (FT.): 813.5 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
139.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	420.0
34.0	CARBONDALE	DANVILLE	COAL	3.5	525.0
-4.0	CARBONDALE	JAMESTOWN	COAL	3.5	563.0
-16.0	CARBONDALE	HERRIN	COAL	2.0	575.0
-64.0	CARBONDALE	SPRINGFIELD	COAL	3.5	623.0
-124.0	CARBONDALE	HOUCHIN CREEK	COAL	-	683.0
-220.0	CARBONDALE	COLCHESTER	COAL	-	779.0
-248.0	SPOON	SEELYVILLE	COAL	6.5	807.0

MAPID: 03300500000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 5

QUARTERS/FOOTAGES: NW SW NW

QUADRANGLE: MORIAH

LONGITUDE: -87.892683

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.170862

DATE COLLECTED:

SURFACE ELEVATION (FT.): 519.0

LOGGED (FT.): 677.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
212.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	307.0
104.0	CARBONDALE	DANVILLE	COAL	-	415.0
70.0	CARBONDALE	JAMESTOWN	COAL	-	449.0
58.0	CARBONDALE	HERRIN	COAL	-	461.0
12.0	CARBONDALE	SPRINGFIELD	COAL	-	507.0
-27.0	CARBONDALE	HOUCHIN CREEK	COAL	-	546.0
-126.0	CARBONDALE	COLCHESTER	COAL	-	645.0
-158.0	SPOON	SEELYVILLE	COAL	-	677.0

MAPID: 03308519000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 5

QUARTERS/FOOTAGES: SE NE NE

QUADRANGLE: MORIAH

LONGITUDE: -87.876527

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.173165

DATE COLLECTED:

SURFACE ELEVATION (FT.): 569.0

LOGGED (FT.): 789.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
160.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	409.0
60.0	CARBONDALE	DANVILLE	COAL	2.5	509.0
23.0	CARBONDALE	JAMESTOWN	COAL	3.0	546.0
9.0	CARBONDALE	HERRIN	COAL	2.0	560.0
-37.0	CARBONDALE	SPRINGFIELD	COAL	3.5	606.0
-75.0	CARBONDALE	HOUCHIN CREEK	COAL	-	644.0
-182.0	CARBONDALE	COLCHESTER	COAL	-	751.0
-218.0	SPOON	SEELYVILLE	COAL	2.0	787.0

MAPID: 03301263000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 6

QUARTERS/FOOTAGES: SE SE SW

QUADRANGLE: MORIAH

LONGITUDE: -87.904195

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.160418

DATE COLLECTED:

SURFACE ELEVATION (FT.): 544.0

LOGGED (FT.): 656.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
263.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	281.0
153.0	CARBONDALE	DANVILLE	COAL	2.5	391.0
119.0	CARBONDALE	JAMESTOWN	COAL	3.5	425.0
110.0	CARBONDALE	HERRIN	COAL	2.0	434.0
61.0	CARBONDALE	SPRINGFIELD	COAL	2.5	483.0
24.0	CARBONDALE	HOUCHIN CREEK	COAL	-	520.0
-79.0	CARBONDALE	COLCHESTER	COAL	-	623.0
-107.0	SPOON	SEELYVILLE	COAL	5.0	651.0

MAPID: 03301164000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 8

QUARTERS/FOOTAGES: NE NW NE

QUADRANGLE: MORIAH

LONGITUDE: -87.880683

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.158987

DATE COLLECTED:

SURFACE ELEVATION (FT.): 561.0

LOGGED (FT.): 733.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
204.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	357.0
107.0	CARBONDALE	DANVILLE	COAL	2.0	454.0
68.0	CARBONDALE	JAMESTOWN	COAL	-	493.0
55.0	CARBONDALE	HERRIN	COAL	-	506.0
5.0	CARBONDALE	SPRINGFIELD	COAL	3.0	556.0
-33.0	CARBONDALE	HOUCHIN CREEK	COAL	-	594.0
-141.0	CARBONDALE	COLCHESTER	COAL	-	702.0
-167.0	SPOON	SEELYVILLE	COAL	5.0	728.0

MAPID: 03301071000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 13W SECTION: 10 QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: ANNAPOLIS LONGITUDE: -87.843881 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.152357 DATE COLLECTED:

SURFACE ELEVATION (FT.): 558.0 LOGGED (FT.): 799.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
152.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	406.0
50.0	CARBONDALE	DANVILLE	COAL	3.0	508.0
15.0	CARBONDALE	JAMESTOWN	COAL	-	543.0
1.0	CARBONDALE	HERRIN	COAL	1.5	557.0
-43.0	CARBONDALE	SPRINGFIELD	COAL	3.5	601.0
-94.0	CARBONDALE	HOUCHIN CREEK	COAL	-	652.0
-207.0	CARBONDALE	COLCHESTER	COAL	-	765.0
-234.0	SPOON	SEELYVILLE	COAL	7.0	792.0

MAPID: 03301887000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 13W SECTION: 10 QUARTERS/FOOTAGES: SE NW SE

QUADRANGLE: ANNAPOLIS LONGITUDE: -87.841474 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.148714 DATE COLLECTED:

SURFACE ELEVATION (FT.): 561.0 LOGGED (FT.): 809.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
149.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	412.0
46.0	CARBONDALE	DANVILLE	COAL	2.0	515.0
11.0	CARBONDALE	JAMESTOWN	COAL	-	550.0
-4.0	CARBONDALE	HERRIN	COAL	2.0	565.0
-49.0	CARBONDALE	SPRINGFIELD	COAL	2.5	610.0
-101.0	CARBONDALE	HOUCHIN CREEK	COAL	-	662.0
-213.0	CARBONDALE	COLCHESTER	COAL	-	774.0
-242.0	SPOON	SEELYVILLE	COAL	6.0	803.0

MAPID: 03301823000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 11

QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: ANNAPOLIS

LONGITUDE: -87.825026

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.152701

DATE COLLECTED:

SURFACE ELEVATION (FT.): 567.0

LOGGED (FT.): 823.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
134.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	433.0
28.0	CARBONDALE	DANVILLE	COAL	3.0	539.0
-3.0	CARBONDALE	JAMESTOWN	COAL	-	570.0
-21.0	CARBONDALE	HERRIN	COAL	2.0	588.0
-65.0	CARBONDALE	SPRINGFIELD	COAL	3.5	632.0
-125.0	CARBONDALE	HOUCHIN CREEK	COAL	-	692.0
-226.0	CARBONDALE	COLCHESTER	COAL	-	793.0
-251.0	SPOON	SEELYVILLE	COAL	5.0	818.0

MAPID: 03302015000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 11

QUARTERS/FOOTAGES: NE SW NW

QUADRANGLE: ANNAPOLIS

LONGITUDE: -87.832088

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.154404

DATE COLLECTED:

SURFACE ELEVATION (FT.): 554.0

LOGGED (FT.): 820.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
141.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	413.0
36.0	CARBONDALE	DANVILLE	COAL	-	518.0
2.0	CARBONDALE	JAMESTOWN	COAL	-	552.0
-14.0	CARBONDALE	HERRIN	COAL	-	568.0
-57.0	CARBONDALE	SPRINGFIELD	COAL	3.0	611.0
-110.0	CARBONDALE	HOUCHIN CREEK	COAL	-	664.0
-227.0	CARBONDALE	COLCHESTER	COAL	-	781.0
-260.0	SPOON	SEELYVILLE	COAL	6.0	814.0

MAPID: 03302781000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 8N 13W    SECTION: 11    QUARTERS/FOOTAGES: SW NE SW

QUADRANGLE: ANNAPOLIS    LONGITUDE: -87.829693    GEOLOGIST: C TREWORY

CONFIDENTIAL: N    LATITUDE: 39.148911    DATE COLLECTED:

SURFACE ELEVATION (FT.): 561.0    LOGGED (FT.): 817.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
133.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	428.0
29.0	CARBONDALE	DANVILLE	COAL	4.0	532.0
-4.0	CARBONDALE	JAMESTOWN	COAL	-	565.0
-20.0	CARBONDALE	HERRIN	COAL	2.0	581.0
-65.0	CARBONDALE	SPRINGFIELD	COAL	3.0	626.0
-119.0	CARBONDALE	HOUCHIN CREEK	COAL	-	680.0
-225.0	CARBONDALE	COLCHESTER	COAL	-	786.0
-251.0	SPOON	SEELYVILLE	COAL	5.0	812.0

MAPID: 03302380000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 8N 13W    SECTION: 12    QUARTERS/FOOTAGES: NE SW SE

QUADRANGLE: ANNAPOLIS    LONGITUDE: -87.804117    GEOLOGIST: C TREWORY

CONFIDENTIAL: N    LATITUDE: 39.147554    DATE COLLECTED:

SURFACE ELEVATION (FT.): 569.0    LOGGED (FT.): 829.5    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
140.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	429.0
35.0	CARBONDALE	DANVILLE	COAL	2.0	534.0
-9.0	CARBONDALE	JAMESTOWN	COAL	-	578.0
-21.0	CARBONDALE	HERRIN	COAL	-	590.0
-67.0	CARBONDALE	SPRINGFIELD	COAL	2.5	636.0
-131.0	CARBONDALE	HOUCHIN CREEK	COAL	-	700.0
-230.0	CARBONDALE	COLCHESTER	COAL	-	799.0
-254.0	SPOON	SEELYVILLE	COAL	6.5	823.0

MAPID: 03308019000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 13

QUARTERS/FOOTAGES: NW NW NE

QUADRANGLE: ANNAPOLIS

LONGITUDE: -87.806338

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.143795

DATE COLLECTED:

SURFACE ELEVATION (FT.): 580.0

LOGGED (FT.): 840.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
144.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	436.0
37.0	CARBONDALE	DANVILLE	COAL	2.0	543.0
-6.0	CARBONDALE	JAMESTOWN	COAL	-	586.0
-18.0	CARBONDALE	HERRIN	COAL	2.0	598.0
-66.0	CARBONDALE	SPRINGFIELD	COAL	2.0	646.0
-132.0	CARBONDALE	HOUCHIN CREEK	COAL	-	712.0
-232.0	CARBONDALE	COLCHESTER	COAL	-	812.0
-254.0	SPOON	SEELYVILLE	COAL	6.0	834.0

MAPID: 03301701000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 15

QUARTERS/FOOTAGES: SW SE SE

QUADRANGLE: ANNAPOLIS

LONGITUDE: -87.838744

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.130409

DATE COLLECTED:

SURFACE ELEVATION (FT.): 553.0

LOGGED (FT.): 812.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
142.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	411.0
35.0	CARBONDALE	DANVILLE	COAL	-	518.0
-1.0	CARBONDALE	JAMESTOWN	COAL	-	554.0
-14.0	CARBONDALE	HERRIN	COAL	2.0	567.0
-59.0	CARBONDALE	SPRINGFIELD	COAL	3.0	612.0
-113.0	CARBONDALE	HOUCHIN CREEK	COAL	-	666.0
-237.0	CARBONDALE	COLCHESTER	COAL	-	790.0
-253.0	SPOON	SEELYVILLE	COAL	6.0	806.0

MAPID: 03324628000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 13W SECTION: 15 QUARTERS/FOOTAGES: SE SE NE

QUADRANGLE: ANNAPOLIS LONGITUDE: -87.836568 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.137763 DATE COLLECTED:

SURFACE ELEVATION (FT.): 562.0 LOGGED (FT.): 822.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
140.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	422.0
37.0	CARBONDALE	DANVILLE	COAL	1.5	525.0
-1.0	CARBONDALE	JAMESTOWN	COAL	-	563.0
-16.0	CARBONDALE	HERRIN	COAL	2.0	578.0
-62.0	CARBONDALE	SPRINGFIELD	COAL	2.0	624.0
-116.0	CARBONDALE	HOUCHIN CREEK	COAL	-	678.0
-240.0	CARBONDALE	COLCHESTER	COAL	-	802.0
-254.0	SPOON	SEELYVILLE	COAL	6.0	816.0

MAPID: 03300380000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 13W SECTION: 17 QUARTERS/FOOTAGES: NE SW SW

QUADRANGLE: MORIAH LONGITUDE: -87.889226 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.132674 DATE COLLECTED:

SURFACE ELEVATION (FT.): 544.0 LOGGED (FT.): 671.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
237.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	307.0
134.0	CARBONDALE	DANVILLE	COAL	3.0	410.0
103.0	CARBONDALE	JAMESTOWN	COAL	-	441.0
94.0	CARBONDALE	HERRIN	COAL	3.0	450.0
47.0	CARBONDALE	SPRINGFIELD	COAL	4.0	497.0
9.0	CARBONDALE	HOUCHIN CREEK	COAL	-	535.0
-104.0	CARBONDALE	COLCHESTER	COAL	-	648.0
-120.0	SPOON	SEELYVILLE	COAL	7.0	664.0



MAPID: 03300381000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 17

QUARTERS/FOOTAGES: NE SW NE

QUADRANGLE: MORIAH

LONGITUDE: -87.879872

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.140043

DATE COLLECTED:

SURFACE ELEVATION (FT.): 540.0

LOGGED (FT.): 689.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
228.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	312.0
118.0	CARBONDALE	DANVILLE	COAL	2.0	422.0
84.0	CARBONDALE	JAMESTOWN	COAL	-	456.0
75.0	CARBONDALE	HERRIN	COAL	3.0	465.0
28.0	CARBONDALE	SPRINGFIELD	COAL	2.5	512.0
-112.0	CARBONDALE	COLCHESTER	COAL	-	652.0
-144.0	SPOON	SEELYVILLE	COAL	5.0	684.0

MAPID: 03300382000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 19

QUARTERS/FOOTAGES: 330' N line, 660' E line of SE

QUADRANGLE: OBLONG NORTH

LONGITUDE: -87.89514

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.121692

DATE COLLECTED:

SURFACE ELEVATION (FT.): 539.0

LOGGED (FT.): 697.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
220.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	319.0
110.0	CARBONDALE	DANVILLE	COAL	-	429.0
75.0	CARBONDALE	JAMESTOWN	COAL	-	464.0
17.0	CARBONDALE	SPRINGFIELD	COAL	3.0	522.0
-139.0	CARBONDALE	COLCHESTER	COAL	-	678.0
-153.0	SPOON	SEELYVILLE	COAL	5.0	692.0

MAPID: 03300386000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 13W SECTION: 19 QUARTERS/FOOTAGES: 330' N line, 660' E line of NW SE

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.899824 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.121593 DATE COLLECTED:

SURFACE ELEVATION (FT.): 537.0 LOGGED (FT.): 721.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
205.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	332.0
92.0	CARBONDALE	DANVILLE	COAL	3.0	445.0
47.0	CARBONDALE	JAMESTOWN	COAL	-	490.0
-13.0	CARBONDALE	SPRINGFIELD	COAL	-	550.0
-159.0	CARBONDALE	COLCHESTER	COAL	-	696.0
-180.0	SPOON	SEELYVILLE	COAL	4.0	717.0

MAPID: 03306617000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 13W SECTION: 20 QUARTERS/FOOTAGES: 330' N line, 660' W line of SW

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.890462 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.121652 DATE COLLECTED:

SURFACE ELEVATION (FT.): 535.0 LOGGED (FT.): 693.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
220.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	315.0
111.0	CARBONDALE	DANVILLE	COAL	4.0	424.0
75.0	CARBONDALE	JAMESTOWN	COAL	-	460.0
68.0	CARBONDALE	HERRIN	COAL	3.5	467.0
9.0	CARBONDALE	SPRINGFIELD	COAL	3.5	526.0
-40.0	CARBONDALE	HOUCHIN CREEK	COAL	-	575.0
-128.0	CARBONDALE	COLCHESTER	COAL	-	663.0
-151.0	SPOON	SEELYVILLE	COAL	7.0	686.0

MAPID: 03300616000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 21

QUARTERS/FOOTAGES: NE SE SW

QUADRANGLE: EATON

LONGITUDE: -87.864195

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.117468

DATE COLLECTED:

SURFACE ELEVATION (FT.): 531.0

LOGGED (FT.): 742.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
187.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	344.0
82.0	CARBONDALE	DANVILLE	COAL	2.5	449.0
40.0	CARBONDALE	JAMESTOWN	COAL	-	491.0
29.0	CARBONDALE	HERRIN	COAL	3.0	502.0
-20.0	CARBONDALE	SPRINGFIELD	COAL	2.5	551.0
-71.0	CARBONDALE	HOUCHIN CREEK	COAL	-	602.0
-187.0	CARBONDALE	COLCHESTER	COAL	-	718.0
-207.0	SPOON	SEELYVILLE	COAL	4.0	738.0

MAPID: 03309355000C VERSION: 1

PROJECT: NCRDS88

COUNTY: CRAWFORD TWP/RNG: 8N 13W SECTION: 23 QUARTERS/FOOTAGES: 712' N line, 50' W line of NE NW

QUADRANGLE: ANNAPOLIS LONGITUDE: -87.830302 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.127607 DATE COLLECTED: 5 / 12 / 1970

SURFACE ELEVATION (FT.): 558.0 LOGGED (FT.): 603.4 LOG TYPE: Drillers Log

SOURCE: SANGAMON COUNTY LAND COMPANY WELL TYPE: Structure Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
558.0			UNCONSOLIDATED	30.0	0.0
528.0	MATTOON		SHALE	68.0	30.0
460.0	BOND	MILLERSVILLE	LIMESTONE	7.0	98.0
453.0	BOND	MILLERSVILLE	SHALE	15.0	105.0
438.0	BOND	MILLERSVILLE	LIMESTONE	10.0	120.0
428.0	BOND		BLACK SHALE	15.0	130.0
413.0	BOND		SHALE	117.0	145.0
296.0	BOND	CARTHAGE	LIMESTONE	3.0	262.0
293.0	MODESTO		SHALE	139.0	265.0
154.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	404.0
149.0	MODESTO		SHALE	97.0	409.0
52.0	CARBONDALE	DANVILLE	COAL	2.4	506.0
49.6	CARBONDALE		SHALE	38.3	508.4
11.3	CARBONDALE	JAMESTOWN	COAL	3.8	546.7
7.6	CARBONDALE		SHALE	11.6	550.4
-4.0	CARBONDALE	HERRIN	COAL	2.0	562.0
-6.0	CARBONDALE		SHALE	33.3	564.0
-39.3	CARBONDALE	BRIAR HILL	COAL	1.8	597.3
-41.1	CARBONDALE		SHALE	1.5	599.1
-42.6	CARBONDALE	SPRINGFIELD	COAL	2.7	600.6
-45.3	CARBONDALE		UNDERCLAY	0.2	603.3

MAPID: 03309355000C VERSION: 2

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 13W SECTION: 23 QUARTERS/FOOTAGES: 712' N line, 50' W line of NE NW

QUADRANGLE: ANNAPOLIS LONGITUDE: -87.830302 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.127607 DATE COLLECTED:

SURFACE ELEVATION (FT.): 558.0 LOGGED (FT.): 603.7 LOG TYPE: Drillers Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
154.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	404.0
52.0	CARBONDALE	DANVILLE	COAL	2.5	506.0
11.0	CARBONDALE	JAMESTOWN	COAL	3.8	547.0
-4.0	CARBONDALE	HERRIN	COAL	2.0	562.0
-43.0	CARBONDALE	SPRINGFIELD	COAL	2.7	601.0

MAPID: 03306624000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 24

QUARTERS/FOOTAGES: NW NW SW

QUADRANGLE: EATON

LONGITUDE: -87.815077

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.121656

DATE COLLECTED:

SURFACE ELEVATION (FT.): 561.0

LOGGED (FT.): 795.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
173.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	388.0
65.0	CARBONDALE	DANVILLE	COAL	4.0	496.0
23.0	CARBONDALE	JAMESTOWN	COAL	-	538.0
8.0	CARBONDALE	HERRIN	COAL	2.0	553.0
-38.0	CARBONDALE	SPRINGFIELD	COAL	2.5	599.0
-105.0	CARBONDALE	HOUCHIN CREEK	COAL	-	666.0
-209.0	CARBONDALE	COLCHESTER	COAL	-	770.0
-229.0	SPOON	SEELYVILLE	COAL	5.0	790.0

MAPID: 03330231000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 24

QUARTERS/FOOTAGES: NE NW NE

QUADRANGLE: ANNAPOLIS

LONGITUDE: -87.803523

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.128858

DATE COLLECTED:

SURFACE ELEVATION (FT.): 564.0

LOGGED (FT.): 808.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
156.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	408.0
52.0	CARBONDALE	DANVILLE	COAL	4.0	512.0
13.0	CARBONDALE	JAMESTOWN	COAL	-	551.0
-3.0	CARBONDALE	HERRIN	COAL	2.0	567.0
-50.0	CARBONDALE	SPRINGFIELD	COAL	3.0	614.0
-121.0	CARBONDALE	HOUCHIN CREEK	COAL	-	685.0
-225.0	CARBONDALE	COLCHESTER	COAL	-	789.0
-238.0	SPOON	SEELYVILLE	COAL	6.0	802.0

MAPID: 03301499000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 25

QUARTERS/FOOTAGES: SE NE NW

QUADRANGLE: EATON

LONGITUDE: -87.807895

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.112778

DATE COLLECTED:

SURFACE ELEVATION (FT.): 555.0

LOGGED (FT.): 802.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
53.0	CARBONDALE	DANVILLE	COAL	3.0	502.0
11.0	CARBONDALE	HERRIN	COAL	2.0	544.0
-36.0	CARBONDALE	SPRINGFIELD	COAL	2.0	591.0
-109.0	CARBONDALE	HOUCHIN CREEK	COAL	-	664.0
-213.0	CARBONDALE	COLCHESTER	COAL	-	768.0
-247.0	SPOON	SEELYVILLE	COAL	-	802.0

MAPID: 03308076000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 25

QUARTERS/FOOTAGES: 660' N line, 1' E line of SW SE

QUADRANGLE: EATON

LONGITUDE: -87.802012

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.102716

DATE COLLECTED:

SURFACE ELEVATION (FT.): 547.0

LOGGED (FT.): 795.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
175.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	372.0
67.0	CARBONDALE	DANVILLE	COAL	3.5	480.0
28.0	CARBONDALE	JAMESTOWN	COAL	-	519.0
15.0	CARBONDALE	HERRIN	COAL	1.5	532.0
-32.0	CARBONDALE	SPRINGFIELD	COAL	2.0	579.0
-107.0	CARBONDALE	HOUCHIN CREEK	COAL	-	654.0
-213.0	CARBONDALE	COLCHESTER	COAL	-	760.0
-248.0	SPOON	SEELYVILLE	COAL	-	795.0

MAPID: 03300001000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 13W SECTION: 26 QUARTERS/FOOTAGES: 350' N line, 350' E line of SW

QUADRANGLE: EATON LONGITUDE: -87.826784 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.106987 DATE COLLECTED:

SURFACE ELEVATION (FT.): 585.0 LOGGED (FT.): 802.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
191.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	394.0
84.0	CARBONDALE	DANVILLE	COAL	3.5	501.0
44.0	CARBONDALE	JAMESTOWN	COAL	4.0	541.0
33.0	CARBONDALE	HERRIN	COAL	2.0	552.0
-12.0	CARBONDALE	SPRINGFIELD	COAL	3.0	597.0
-71.0	CARBONDALE	HOUCHIN CREEK	COAL	-	656.0
-193.0	CARBONDALE	COLCHESTER	COAL	-	778.0
-211.0	SPOON	SEELYVILLE	COAL	6.0	796.0

MAPID: 03300001000C VERSION: 2

PROJECT: CONTROL

COUNTY: CRAWFORD TWP/RNG: 8N 13W SECTION: 26 QUARTERS/FOOTAGES: 350' N line, 350' E line of SW

QUADRANGLE: EATON LONGITUDE: -87.826784 GEOLOGIST: HINES

CONFIDENTIAL: N LATITUDE: 39.106987 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 2836.0 LOG TYPE: Survey Sample Study

SOURCE: MOULTON GAIL F WELL TYPE: Oil and Gas Test

COMMENT: OILWELLS LOGGED BY COAL SECT-LOGS IN GRU

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-			NO RECORD	0.0	0.0

MAPID: 03301672000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 26

QUARTERS/FOOTAGES: SE SW SW

QUADRANGLE: EATON

LONGITUDE: -87.831275

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 39.101535

DATE COLLECTED:

SURFACE ELEVATION (FT.): 553.0

LOGGED (FT.): 795.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
66.0	CARBONDALE	DANVILLE	COAL	3.0	487.0
31.0	CARBONDALE	JAMESTOWN	COAL	-	522.0
19.0	CARBONDALE	HERRIN	COAL	2.5	534.0
-27.0	CARBONDALE	SPRINGFIELD	COAL	1.5	580.0
-97.0	CARBONDALE	HOUCHIN CREEK	COAL	-	650.0
-207.0	CARBONDALE	COLCHESTER	COAL	-	760.0
-237.0	SPOON	SEELYVILLE	COAL	5.0	790.0

MAPID: 03302408000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 26

QUARTERS/FOOTAGES: SW NW NW

QUADRANGLE: EATON

LONGITUDE: -87.833775

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 39.11246

DATE COLLECTED:

SURFACE ELEVATION (FT.): 565.0

LOGGED (FT.): 763.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
193.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	372.0
89.0	CARBONDALE	DANVILLE	COAL	4.0	476.0
55.0	CARBONDALE	JAMESTOWN	COAL	-	510.0
40.0	CARBONDALE	HERRIN	COAL	1.5	525.0
-4.0	CARBONDALE	SPRINGFIELD	COAL	2.0	569.0
-66.0	CARBONDALE	HOUCHIN CREEK	COAL	-	631.0
-182.0	CARBONDALE	COLCHESTER	COAL	-	747.0
-192.0	SPOON	SEELYVILLE	COAL	6.0	757.0



MAPID: 03302383000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 27

QUARTERS/FOOTAGES: SW NE SE

QUADRANGLE: EATON

LONGITUDE: -87.838306

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.105139

DATE COLLECTED:

SURFACE ELEVATION (FT.): 562.0

LOGGED (FT.): 782.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
179.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	383.0
73.0	CARBONDALE	DANVILLE	COAL	3.5	489.0
36.0	CARBONDALE	JAMESTOWN	COAL	-	526.0
26.0	CARBONDALE	HERRIN	COAL	2.0	536.0
-19.0	CARBONDALE	SPRINGFIELD	COAL	2.0	581.0
-83.0	CARBONDALE	HOUCHIN CREEK	COAL	-	645.0
-199.0	CARBONDALE	COLCHESTER	COAL	-	761.0
-216.0	SPOON	SEELYVILLE	COAL	4.0	778.0

MAPID: 03302391000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 27

QUARTERS/FOOTAGES: SE NE NE

QUADRANGLE: EATON

LONGITUDE: -87.836114

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.11243

DATE COLLECTED:

SURFACE ELEVATION (FT.): 564.0

LOGGED (FT.): 802.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
170.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	394.0
64.0	CARBONDALE	DANVILLE	COAL	2.0	500.0
28.0	CARBONDALE	JAMESTOWN	COAL	-	536.0
17.0	CARBONDALE	HERRIN	COAL	2.0	547.0
-29.0	CARBONDALE	SPRINGFIELD	COAL	2.0	593.0
-92.0	CARBONDALE	HOUCHIN CREEK	COAL	-	656.0
-200.0	CARBONDALE	COLCHESTER	COAL	-	764.0
-234.0	SPOON	SEELYVILLE	COAL	4.0	798.0

MAPID: 0330116600C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 13W SECTION: 30 QUARTERS/FOOTAGES: NW SW SE

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.900464 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.103338 DATE COLLECTED:

SURFACE ELEVATION (FT.): 523.0 LOGGED (FT.): 719.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
186.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	337.0
83.0	CARBONDALE	DANVILLE	COAL	3.5	440.0
35.0	CARBONDALE	JAMESTOWN	COAL	-	488.0
24.0	CARBONDALE	HERRIN	COAL	-	499.0
-9.0	CARBONDALE	SPRINGFIELD	COAL	2.5	532.0
-50.0	CARBONDALE	HOUCHIN CREEK	COAL	-	573.0
-164.0	CARBONDALE	COLCHESTER	COAL	-	687.0
-192.0	SPOON	SEELYVILLE	COAL	4.0	715.0

MAPID: 0330192400C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 13W SECTION: 31 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: OBLONG NORTH LONGITUDE: -87.893107 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.087118 DATE COLLECTED:

SURFACE ELEVATION (FT.): 518.0 LOGGED (FT.): 745.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
172.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	346.0
66.0	CARBONDALE	DANVILLE	COAL	2.5	452.0
23.0	CARBONDALE	JAMESTOWN	COAL	-	495.0
18.0	CARBONDALE	HERRIN	COAL	2.0	500.0
-29.0	CARBONDALE	SPRINGFIELD	COAL	2.0	547.0
-82.0	CARBONDALE	HOUCHIN CREEK	COAL	-	600.0
-187.0	CARBONDALE	COLCHESTER	COAL	-	705.0
-224.0	SPOON	SEELYVILLE	COAL	3.5	742.0

MAPID: 03301958000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 8N 13W    SECTION: 31    QUARTERS/FOOTAGES: SW SE NW

QUADRANGLE: OBLONG NORTH    LONGITUDE: -87.90497    GEOLOGIST: C TREWORY

CONFIDENTIAL: N    LATITUDE: 39.094272    DATE COLLECTED:

SURFACE ELEVATION (FT.): 508.0    LOGGED (FT.): 739.5    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
166.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	342.0
46.0	CARBONDALE	DANVILLE	COAL	1.5	462.0
6.0	CARBONDALE	JAMESTOWN	COAL	-	502.0
-3.0	CARBONDALE	HERRIN	COAL	2.0	511.0
-46.0	CARBONDALE	SPRINGFIELD	COAL	3.0	554.0
-92.0	CARBONDALE	HOUCHIN CREEK	COAL	-	600.0
-201.0	CARBONDALE	COLCHESTER	COAL	-	709.0
-228.0	SPOON	SEELYVILLE	COAL	3.5	736.0

MAPID: 03300960000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 8N 13W    SECTION: 32    QUARTERS/FOOTAGES: SW SE SE

QUADRANGLE: OBLONG NORTH    LONGITUDE: -87.876289    GEOLOGIST: C TREWORY

CONFIDENTIAL: N    LATITUDE: 39.087117    DATE COLLECTED:

SURFACE ELEVATION (FT.): 526.0    LOGGED (FT.): 744.0    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
183.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	343.0
76.0	CARBONDALE	DANVILLE	COAL	3.5	450.0
33.0	CARBONDALE	JAMESTOWN	COAL	-	493.0
30.0	CARBONDALE	HERRIN	COAL	-	496.0
-14.0	CARBONDALE	SPRINGFIELD	COAL	4.0	540.0
-75.0	CARBONDALE	HOUCHIN CREEK	COAL	-	601.0
-184.0	CARBONDALE	COLCHESTER	COAL	-	710.0
-213.0	SPOON	SEELYVILLE	COAL	5.0	739.0

MAPID: 03301824000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 33

QUARTERS/FOOTAGES: NE SW SE

QUADRANGLE: EATON

LONGITUDE: -87.859539

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.088953

DATE COLLECTED:

SURFACE ELEVATION (FT.): 534.0

LOGGED (FT.): 764.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
178.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	356.0
71.0	CARBONDALE	DANVILLE	COAL	2.5	463.0
26.0	CARBONDALE	JAMESTOWN	COAL	-	508.0
20.0	CARBONDALE	HERRIN	COAL	1.5	514.0
-23.0	CARBONDALE	SPRINGFIELD	COAL	2.0	557.0
-87.0	CARBONDALE	HOUCHIN CREEK	COAL	-	621.0
-206.0	CARBONDALE	COLCHESTER	COAL	-	740.0
-223.0	SPOON	SEELYVILLE	COAL	7.0	757.0

MAPID: 03301959000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 33

QUARTERS/FOOTAGES: SW SE NE

QUADRANGLE: EATON

LONGITUDE: -87.857077

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.094278

DATE COLLECTED:

SURFACE ELEVATION (FT.): 540.0

LOGGED (FT.): 748.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
196.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	344.0
90.0	CARBONDALE	DANVILLE	COAL	3.5	450.0
50.0	CARBONDALE	JAMESTOWN	COAL	-	490.0
45.0	CARBONDALE	HERRIN	COAL	1.5	495.0
0.0	CARBONDALE	SPRINGFIELD	COAL	3.0	540.0
-63.0	CARBONDALE	HOUCHIN CREEK	COAL	-	603.0
-176.0	CARBONDALE	COLCHESTER	COAL	-	716.0
-203.0	SPOON	SEELYVILLE	COAL	5.0	743.0

MAPID: 03300589000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 34

QUARTERS/FOOTAGES: NW SE SW

QUADRANGLE: EATON

LONGITUDE: -87.847748

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.088966

DATE COLLECTED:

SURFACE ELEVATION (FT.): 590.0

LOGGED (FT.): 816.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
186.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	404.0
74.0	CARBONDALE	DANVILLE	COAL	2.5	516.0
35.0	CARBONDALE	JAMESTOWN	COAL	-	555.0
29.0	CARBONDALE	HERRIN	COAL	1.5	561.0
-16.0	CARBONDALE	SPRINGFIELD	COAL	-	606.0
-85.0	CARBONDALE	HOUCHIN CREEK	COAL	-	675.0
-195.0	CARBONDALE	COLCHESTER	COAL	-	785.0
-222.0	SPOON	SEELYVILLE	COAL	4.0	812.0

MAPID: 03301727000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 34

QUARTERS/FOOTAGES: SE NW NE

QUADRANGLE: EATON

LONGITUDE: -87.840598

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.097899

DATE COLLECTED:

SURFACE ELEVATION (FT.): 580.0

LOGGED (FT.): 801.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
177.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	403.0
70.0	CARBONDALE	DANVILLE	COAL	2.0	510.0
31.0	CARBONDALE	JAMESTOWN	COAL	-	549.0
23.0	CARBONDALE	HERRIN	COAL	2.5	557.0
-22.0	CARBONDALE	SPRINGFIELD	COAL	-	602.0
-89.0	CARBONDALE	HOUCHIN CREEK	COAL	-	669.0
-193.0	CARBONDALE	COLCHESTER	COAL	-	773.0
-217.0	SPOON	SEELYVILLE	COAL	4.0	797.0

MAPID: 03300384000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 13W SECTION: 35 QUARTERS/FOOTAGES: 10' S line, 660' E line of NW SW  
 QUADRANGLE: EATON LONGITUDE: -87.83262 GEOLOGIST: C TREWORGY  
 CONFIDENTIAL: N LATITUDE: 39.089836 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): 555.0 LOGGED (FT.): 803.5 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
172.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	383.0
58.0	CARBONDALE	DANVILLE	COAL	2.5	497.0
19.0	CARBONDALE	JAMESTOWN	COAL	-	536.0
10.0	CARBONDALE	HERRIN	COAL	2.5	545.0
-38.0	CARBONDALE	SPRINGFIELD	COAL	2.0	593.0
-107.0	CARBONDALE	HOUCHIN CREEK	COAL	-	662.0
-245.0	SPOON	SEELYVILLE	COAL	3.5	800.0

MAPID: 03301544000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 13W SECTION: 35 QUARTERS/FOOTAGES: 1040' N line, 380' E line of NW NW  
 QUADRANGLE: EATON LONGITUDE: -87.831502 GEOLOGIST: C TREWORGY  
 CONFIDENTIAL: N LATITUDE: 39.097752 DATE COLLECTED:  
 SURFACE ELEVATION (FT.): LOGGED (FT.): 802.0 LOG TYPE: Electric Log  
 SOURCE: WELL TYPE: Oil and Gas Test  
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	377.0
-	CARBONDALE	DANVILLE	COAL	3.0	488.0
-	CARBONDALE	JAMESTOWN	COAL	-	530.0
-	CARBONDALE	HERRIN	COAL	2.5	539.0
-	CARBONDALE	SPRINGFIELD	COAL	3.0	585.0
-	CARBONDALE	HOUCHIN CREEK	COAL	-	656.0
-	CARBONDALE	COLCHESTER	COAL	-	774.0
-	SPOON	SEELYVILLE	COAL	5.0	797.0

MAPID: 03302146000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 35

QUARTERS/FOOTAGES: SW SW NE

QUADRANGLE: EATON

LONGITUDE: -87.824447

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.094308

DATE COLLECTED:

SURFACE ELEVATION (FT.): 549.0

LOGGED (FT.): 806.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
171.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	378.0
71.0	CARBONDALE	DANVILLE	COAL	3.0	478.0
25.0	CARBONDALE	JAMESTOWN	COAL	-	524.0
15.0	CARBONDALE	HERRIN	COAL	2.5	534.0
-35.0	CARBONDALE	SPRINGFIELD	COAL	2.0	584.0
-109.0	CARBONDALE	HOUCHIN CREEK	COAL	-	658.0
-230.0	CARBONDALE	COLCHESTER	COAL	-	779.0
-253.0	SPOON	SEELYVILLE	COAL	4.0	802.0

MAPID: 03301629000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 13W

SECTION: 36

QUARTERS/FOOTAGES: NW SW NE

QUADRANGLE: EATON

LONGITUDE: -87.805665

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.096223

DATE COLLECTED:

SURFACE ELEVATION (FT.): 513.0

LOGGED (FT.): 761.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
177.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	336.0
71.0	CARBONDALE	DANVILLE	COAL	2.5	442.0
32.0	CARBONDALE	JAMESTOWN	COAL	-	481.0
18.0	CARBONDALE	HERRIN	COAL	2.0	495.0
-29.0	CARBONDALE	SPRINGFIELD	COAL	2.5	542.0
-91.0	CARBONDALE	HOUCHIN CREEK	COAL	-	604.0
-205.0	CARBONDALE	COLCHESTER	COAL	-	718.0
-244.0	SPOON	SEELYVILLE	COAL	4.0	757.0

MAPID: 03300410000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 14W

SECTION: 1

QUARTERS/FOOTAGES: SE NW NW

QUADRANGLE: MORIAH

LONGITUDE: -87.927986

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.172306

DATE COLLECTED:

SURFACE ELEVATION (FT.): 565.0

LOGGED (FT.): 318.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
443.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	122.0
333.0	CARBONDALE	DANVILLE	COAL	-	232.0
300.0	CARBONDALE	JAMESTOWN	COAL	-	265.0
290.0	CARBONDALE	HERRIN	COAL	-	275.0
247.0	CARBONDALE	SPRINGFIELD	COAL	-	318.0

MAPID: 03308742000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 14W

SECTION: 1

QUARTERS/FOOTAGES: SW SE SW

QUADRANGLE: MORIAH

LONGITUDE: -87.925432

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.159905

DATE COLLECTED:

SURFACE ELEVATION (FT.): 560.0

LOGGED (FT.): 479.5

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
420.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	140.0
319.0	CARBONDALE	DANVILLE	COAL	2.0	241.0
290.0	CARBONDALE	JAMESTOWN	COAL	-	270.0
282.0	CARBONDALE	HERRIN	COAL	2.0	278.0
236.0	CARBONDALE	SPRINGFIELD	COAL	2.5	324.0
190.0	CARBONDALE	HOUCHIN CREEK	COAL	-	370.0
110.0	CARBONDALE	COLCHESTER	COAL	-	450.0
85.0	SPOON	SEELYVILLE	COAL	4.5	475.0



MAPID: 03329921000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 14W SECTION: 12 QUARTERS/FOOTAGES: 950' S line, 800' W line of SW SW

QUADRANGLE: MORIAH LONGITUDE: -87.928118 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.147081 DATE COLLECTED:

SURFACE ELEVATION (FT.): 558.0 LOGGED (FT.): 527.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: POOR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
360.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	198.0
254.0	CARBONDALE	DANVILLE	COAL	-	304.0
226.0	CARBONDALE	HERRIN	COAL	-	332.0
186.0	CARBONDALE	SPRINGFIELD	COAL	-	372.0
58.0	CARBONDALE	COLCHESTER	COAL	-	500.0
31.0	SPOON	SEELYVILLE	COAL	-	527.0

MAPID: 03307019000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD TWP/RNG: 8N 14W SECTION: 13 QUARTERS/FOOTAGES: 375' N line, 540' E line of NW

QUADRANGLE: MORIAH LONGITUDE: -87.923518 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.143446 DATE COLLECTED:

SURFACE ELEVATION (FT.): 548.0 LOGGED (FT.): 542.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
341.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	207.0
252.0	CARBONDALE	DANVILLE	COAL	3.0	296.0
220.0	CARBONDALE	JAMESTOWN	COAL	-	328.0
216.0	CARBONDALE	HERRIN	COAL	2.0	332.0
166.0	CARBONDALE	SPRINGFIELD	COAL	3.5	382.0
133.0	CARBONDALE	HOUCHIN CREEK	COAL	-	415.0
33.0	CARBONDALE	COLCHESTER	COAL	-	515.0
11.0	SPOON	SEELYVILLE	COAL	5.5	537.0

MAPID: 03307041000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 14W

SECTION: 13

QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: MORIAH

LONGITUDE: -87.929394

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.130634

DATE COLLECTED:

SURFACE ELEVATION (FT.): 541.0

LOGGED (FT.): 611.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
285.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	256.0
176.0	CARBONDALE	DANVILLE	COAL	2.5	365.0
146.0	CARBONDALE	JAMESTOWN	COAL	-	395.0
142.0	CARBONDALE	HERRIN	COAL	-	399.0
89.0	CARBONDALE	SPRINGFIELD	COAL	3.0	452.0
56.0	CARBONDALE	HOUCHIN CREEK	COAL	-	485.0
-41.0	CARBONDALE	COLCHESTER	COAL	-	582.0
-65.0	SPOON	SEELYVILLE	COAL	5.0	606.0

MAPID: 03300964000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD

TWP/RNG: 8N 14W

SECTION: 23

QUARTERS/FOOTAGES: SE NE SE

QUADRANGLE: OBLONG NORTH

LONGITUDE: -87.931459

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.119847

DATE COLLECTED:

SURFACE ELEVATION (FT.): 540.0

LOGGED (FT.): 629.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
261.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	279.0
147.0	CARBONDALE	DANVILLE	COAL	2.5	393.0
66.0	CARBONDALE	SPRINGFIELD	COAL	2.5	474.0
30.0	CARBONDALE	HOUCHIN CREEK	COAL	-	510.0
-64.0	CARBONDALE	COLCHESTER	COAL	-	604.0
-83.0	SPOON	SEELYVILLE	COAL	6.0	623.0

MAPID: 03301505000C    VERSION: 1

PROJECT: CGT-ECILL

COUNTY: CRAWFORD    TWP/RNG: 8N 14W    SECTION: 26    QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: OBLONG NORTH    LONGITUDE: -87.930831    GEOLOGIST: C TREWORY

CONFIDENTIAL: N    LATITUDE: 39.101622    DATE COLLECTED:

SURFACE ELEVATION (FT.): 531.0    LOGGED (FT.): 708.5    LOG TYPE: Electric Log

SOURCE:    WELL TYPE: Oil and Gas Test

COMMENT: FAIR LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-3.0	CARBONDALE	SPRINGFIELD	COAL	2.5	534.0
-47.0	CARBONDALE	HOUCHIN CREEK	COAL	-	578.0
-141.0	CARBONDALE	COLCHESTER	COAL	-	672.0
-173.0	SPOON	SEELYVILLE	COAL	4.5	704.0

---