

Status Report

Total Records: 502

Top 3 County Records		Top 3 Log Type Records		Top 3 Coal Records		Top 3 Member Records	
Jasper	502	Electric Log	397	HERRIN	495	HERRIN COAL	495
		Multiple log types	61	SPRINGFIELD	481	SPRINGFIELD COAL	481
		Drillers Log	22	DANVILLE	479	DANVILLE COAL	479

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
SURVANT - UPPER		1352.6	1260.0	1425.0	1.3	1.0	2.0
SURVANT - LOWER		1382.7	1283.0	1456.0	0.9	0.5	1.5
FALMOUTH	SHALE	93.8	20.0	158.0	2.8	1.0	10.0
WETWETHER	SHALE	136.0	103.0	179.0	2.3	1.0	4.0
BOGOTA	LIMESTONE	149.6	100.5	193.0	2.3	0.5	6.0
INGRAHAM	SHALE	143.7	52.0	208.0	5.7	0.7	11.0
TROWBRIDGE	COAL	137.4	60.0	186.0	2.0	1.0	3.1
SHUMWAY	LIMESTONE	202.8	67.0	292.6	3.1	0.5	11.4
TEUTOPOLIS	SHALE	226.6	78.4	298.0	3.8	2.0	13.6
OMEGA	LIMESTONE	340.7	340.7	340.7	3.0	3.0	3.0
COHN	COAL	577.8	576.0	579.5	2.0	2.0	2.0
MILLERSVILLE	LIMESTONE	594.5	384.0	680.0	7.8	1.0	36.6
BRISTOL HILL	COAL	679.0	679.0	679.0	1.0	1.0	1.0
WITT	COAL	728.0	728.0	728.0	2.0	2.0	2.0
FLANNIGAN	COAL	769.5	769.5	769.5	1.5	1.5	1.5
CARTHAGE	LIMESTONE	707.4	185.0	870.0	5.2	1.5	11.0
NEW HAVEN	COAL	785.4	534.0	880.5	2.8	0.7	11.0
CHAPEL	COAL	836.9	689.0	971.0	3.3	1.0	10.0
TRIVOLI	SANDSTONE	928.5	810.0	1030.0	74.9	20.0	158.0
WEST FRANKLIN	LIMESTONE	858.4	212.0	1098.5	11.7	2.0	35.2
DANVILLE	COAL	1015.2	322.0	1219.0	2.7	1.0	5.8
BANKSTON FORK	LIMESTONE	1132.4	1044.3	1209.0	4.0	1.0	10.5
CONANT	LIMESTONE	1141.3	874.0	1249.2	1.9	0.5	3.5
JAMESTOWN	COAL	1152.5	964.4	1263.5	2.4	0.3	6.4
BRERETON	LIMESTONE	1152.7	880.6	1257.8	5.2	2.0	11.0
ANNA	SHALE	1163.0	974.5	1264.0	1.8	0.1	6.0
HERRIN	COAL	1065.5	351.0	1279.0	4.6	2.0	7.5
BRIAR HILL	COAL	1189.2	912.0	1310.5	2.0	0.5	3.5
ST. DAVID	LIMESTONE	1188.0	916.0	1281.5	3.1	0.2	12.0
TURNER MINE	SHALE	1195.1	919.0	1296.2	1.5	0.4	6.0

SPRINGFIELD	COAL	1106.3	398.0	1320.0	3.7	0.4	6.0
HANOVER	LIMESTONE	1247.8	1109.8	1322.0	1.7	0.3	3.2
EXCELLO	SHALE	1257.5	1110.4	1337.5	4.8	0.8	34.0
HOUCHIN CREEK	COAL	1166.9	432.0	1383.0	2.7	1.0	5.5
SURVANT	COAL	1317.1	1187.5	1440.0	1.1	0.5	2.0
OAK GROVE	LIMESTONE	1448.0	1448.0	1448.0	2.0	2.0	2.0
MECCA QUARRY	SHALE	1385.5	1252.0	1471.5	1.9	1.0	2.5
COLCHESTER	COAL	1297.2	530.0	1533.0	2.0	1.0	3.0
PALZO	SANDSTONE	1318.5	1315.0	1322.0	22.3	20.1	24.6
SEELYVILLE	COAL	1324.5	555.0	1543.0	4.9	0.9	21.2
				Net Coal	40.7		

Coal Logs

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

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

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

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

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

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

MAPID: 07900197000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 1 QUARTERS/FOOTAGES: SE SE NW
QUADRANGLE: LATONA LONGITUDE: -88.270124 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.899729 DATE COLLECTED:
SURFACE ELEVATION (FT.): 531.0 LOGGED (FT.): 1436.0 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
-243.0	BOND	CARTHAGE	LIMESTONE	6.0	774.0
-423.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	954.0
-604.0	CARBONDALE	DANVILLE	COAL	3.0	1135.0
-646.0	CARBONDALE	HERRIN	COAL	4.5	1177.0
-687.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1218.0
-759.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1290.0
-905.0	CARBONDALE	COLCHESTER	COAL	-	1436.0

MAPID: 07900349000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 2 QUARTERS/FOOTAGES: SE NW SE
QUADRANGLE: LATONA LONGITUDE: -88.283865 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.896594 DATE COLLECTED:
SURFACE ELEVATION (FT.): 528.0 LOGGED (FT.): 1379.0 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
-224.0	BOND	CARTHAGE	LIMESTONE	6.0	752.0
-428.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	956.0
-574.0	CARBONDALE	DANVILLE	COAL	3.0	1102.0
-614.0	CARBONDALE	HERRIN	COAL	4.0	1142.0
-643.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1171.0
-851.0	CARBONDALE	COLCHESTER	COAL	-	1379.0

MAPID: 07900989000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 2 QUARTERS/FOOTAGES: SE NW NW
QUADRANGLE: LATONA LONGITUDE: -88.293138 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.904363 DATE COLLECTED:
SURFACE ELEVATION (FT.): 517.0 LOGGED (FT.): 1316.0 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	BOND	CARTHAGE	LIMESTONE	6.0	744.0
-413.0	MODESTO	WEST FRANKLIN	LIMESTONE	31.0	930.0
-598.0	CARBONDALE	DANVILLE	COAL	3.0	1115.0
-641.0	CARBONDALE	HERRIN	COAL	3.0	1158.0
-687.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1204.0
-799.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1316.0

MAPID: 07901230000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 3 QUARTERS/FOOTAGES: SE SE NW
QUADRANGLE: LATONA LONGITUDE: -88.306919 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.901413 DATE COLLECTED:
SURFACE ELEVATION (FT.): 488.0 LOGGED (FT.): 1380.0 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
-220.0	BOND	CARTHAGE	LIMESTONE	5.0	708.0
-596.0	CARBONDALE	DANVILLE	COAL	2.5	1084.0
-638.0	CARBONDALE	HERRIN	COAL	4.5	1126.0
-682.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1170.0
-752.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1240.0
-882.0	CARBONDALE	COLCHESTER	COAL	-	1370.0
-892.0	SPOON	SEELYVILLE	COAL	-	1380.0

MAPID: 07900010000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 4 QUARTERS/FOOTAGES: 660' N line, 330' E line of SE
QUADRANGLE: LATONA LONGITUDE: -88.316162 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.899083 DATE COLLECTED:
SURFACE ELEVATION (FT.): 524.0 LOGGED (FT.): 1388.0 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
-202.0	BOND	CARTHAGE	LIMESTONE	5.0	726.0
-393.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	917.0
-568.0	CARBONDALE	DANVILLE	COAL	3.0	1092.0
-614.0	CARBONDALE	HERRIN	COAL	4.0	1138.0
-656.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1180.0
-730.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1254.0
-864.0	CARBONDALE	COLCHESTER	COAL	-	1388.0

MAPID: 07900010000C VERSION: 2 PROJECT: CONTROL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 4 QUARTERS/FOOTAGES: 660' N line, 330' E line of SE
QUADRANGLE: LATONA LONGITUDE: -88.316162 GEOLOGIST: HINES
CONFIDENTIAL: N LATITUDE: 38.899083 DATE COLLECTED:
SURFACE ELEVATION (FT.): LOGGED (FT.): 3162.0 LOG TYPE: Survey Sample Study
SOURCE: SINCLAIR WYOMING OIL 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: 07900304000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 8 QUARTERS/FOOTAGES: SW SE NW
QUADRANGLE: LATONA LONGITUDE: -88.346144 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.888642 DATE COLLECTED:
SURFACE ELEVATION (FT.): 519.0 LOGGED (FT.): 1371.0 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
-197.0	BOND	CARTHAGE	LIMESTONE	11.0	716.0
-357.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	876.0
-524.0	CARBONDALE	DANVILLE	COAL	3.0	1043.0
-570.0	CARBONDALE	HERRIN	COAL	4.5	1089.0
-609.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1128.0
-814.0	CARBONDALE	COLCHESTER	COAL	-	1333.0
-849.0	SPOON	SEELYVILLE	COAL	3.0	1368.0

MAPID: 07901044000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 8 QUARTERS/FOOTAGES: 990' N line, 660' E line of SE NE
QUADRANGLE: LATONA LONGITUDE: -88.335808 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.88799 DATE COLLECTED:
SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 1297.5 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
-194.0	BOND	CARTHAGE	LIMESTONE	6.0	664.0
-372.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	842.0
-532.0	CARBONDALE	DANVILLE	COAL	2.5	1002.0
-579.0	CARBONDALE	HERRIN	COAL	4.0	1049.0
-620.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1090.0
-697.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1167.0
-825.0	CARBONDALE	COLCHESTER	COAL	2.5	1295.0

MAPID: 07922758000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 9 QUARTERS/FOOTAGES: 1320' S line, 2535' E line
 QUADRANGLE: LATONA LONGITUDE: -88.323712 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.88308 DATE COLLECTED: 7 / 24 / 1978
 SURFACE ELEVATION (FT.): 510.0 LOGGED (FT.): 1227.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG-78-2 WELL TYPE: Coal Test
 COMMENT: GAMMA, DENSITY AND RESISTIVITY LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
510.0			UNCONSOLIDATED	23.0	0.0	
487.0	MATTOON		UNCLASSIFIED	31.0	23.0	BASE OF GLACIAL
456.0	MATTOON	INGRAHAM	BLACK SHALE	5.0	54.0	UNCERTAIN CORRELATION
451.0	MATTOON		UNCLASSIFIED	94.0	59.0	
357.0	MATTOON	TEUTOPOLIS	BLACK SHALE	4.0	153.0	UNCERTAIN CORRELATION
353.0	MATTOON		UNCLASSIFIED	268.0	157.0	
85.0	MATTOON		BLACK SHALE	3.0	425.0	
82.0	MATTOON		UNCLASSIFIED	18.0	428.0	
64.0	BOND	MILLERSVILLE	LIMESTONE	6.0	446.0	
58.0			UNCLASSIFIED	131.0	452.0	
-73.0			BLACK SHALE	3.0	583.0	
-76.0	BOND		UNCLASSIFIED	152.0	586.0	
-228.0	BOND	CARTHAGE	LIMESTONE	4.0	738.0	
-232.0	MODESTO	NEW HAVEN	BLACK SHALE	4.5	742.0	
-236.5	MODESTO		UNCLASSIFIED	57.5	746.5	
-294.0	MODESTO	CHAPEL	BLACK SHALE	3.0	804.0	
-297.0	MODESTO		UNCLASSIFIED	108.0	807.0	
-405.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	915.0	
-417.0	MODESTO		UNCLASSIFIED	171.0	927.0	
-588.0	CARBONDALE	DANVILLE	COAL	2.0	1098.0	
-590.0	CARBONDALE		UNCLASSIFIED	40.0	1100.0	
-630.0	CARBONDALE	BRERETON	LIMESTONE	3.0	1140.0	
-633.0	CARBONDALE	ANNA	BLACK SHALE	3.0	1143.0	
-636.0	CARBONDALE	HERRIN	COAL	5.0	1146.0	
-641.0	CARBONDALE		UNCLASSIFIED	28.0	1151.0	
-669.0	CARBONDALE	BRIAR HILL	COAL	3.0	1179.0	
-672.0	CARBONDALE		UNCLASSIFIED	5.0	1182.0	
-677.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	1187.0	
-679.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1189.0	
-683.0	CARBONDALE		UNCLASSIFIED	34.0	1193.0	

MAPID: 07900399000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 10 QUARTERS/FOOTAGES: SE SE SE
QUADRANGLE: LATONA LONGITUDE: -88.297222 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.879184 DATE COLLECTED:
SURFACE ELEVATION (FT.): 513.0 LOGGED (FT.): 1428.5 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	
-215.0	BOND	CARTHAGE	LIMESTONE	6.0	728.0	
-466.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	979.0	
-591.0	CARBONDALE	DANVILLE	COAL	3.0	1104.0	
-635.0	CARBONDALE	HERRIN	COAL	-	1148.0	
-663.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1176.0	
-743.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1256.0	
-891.0	CARBONDALE	COLCHESTER	COAL	-	1404.0	
-911.0	SPOON	SEELYVILLE	COAL	4.5	1424.0	

MAPID: 07900315000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 11 QUARTERS/FOOTAGES: NE NW SE
QUADRANGLE: LATONA LONGITUDE: -88.283589 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.883877 DATE COLLECTED:
SURFACE ELEVATION (FT.): 518.0 LOGGED (FT.): 1421.0 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	
-214.0	BOND	CARTHAGE	LIMESTONE	6.0	732.0	
-586.0	CARBONDALE	DANVILLE	COAL	3.0	1104.0	
-629.0	CARBONDALE	HERRIN	COAL	4.0	1147.0	
-668.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1186.0	
-740.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1258.0	
-882.0	CARBONDALE	COLCHESTER	COAL	-	1400.0	
-901.0	SPOON	SEELYVILLE	COAL	2.0	1419.0	

MAPID: 07901094000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 12 QUARTERS/FOOTAGES: NW NW SE
QUADRANGLE: LATONA LONGITUDE: -88.267418 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.883245 DATE COLLECTED:
SURFACE ELEVATION (FT.): 511.0 LOGGED (FT.): 1420.0 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
-238.0	BOND	CARTHAGE	LIMESTONE	5.0	749.0
-613.0	CARBONDALE	DANVILLE	COAL	-	1124.0
-659.0	CARBONDALE	HERRIN	COAL	-	1170.0
-691.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1202.0
-764.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1275.0
-909.0	CARBONDALE	COLCHESTER	COAL	-	1420.0

MAPID: 07900317000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 14 QUARTERS/FOOTAGES: SE NE SW
QUADRANGLE: SAILOR SPRINGS LONGITUDE: -88.287927 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.86771 DATE COLLECTED:
SURFACE ELEVATION (FT.): 501.0 LOGGED (FT.): 1411.5 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
-240.0	BOND	CARTHAGE	LIMESTONE	6.0	741.0
-587.0	CARBONDALE	DANVILLE	COAL	3.5	1088.0
-635.0	CARBONDALE	HERRIN	COAL	5.0	1136.0
-675.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1176.0
-745.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1246.0
-885.0	CARBONDALE	COLCHESTER	COAL	-	1386.0
-905.0	SPOON	SEELYVILLE	COAL	5.5	1406.0

MAPID: 07901175000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 15 QUARTERS/FOOTAGES: NE NW NE
QUADRANGLE: LATONA LONGITUDE: -88.301862 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.877565 DATE COLLECTED:
SURFACE ELEVATION (FT.): 507.0 LOGGED (FT.): 1455.0 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
-236.0	BOND	CARTHAGE	LIMESTONE	5.0	743.0
-611.0	CARBONDALE	DANVILLE	COAL	2.0	1118.0
-659.0	CARBONDALE	HERRIN	COAL	5.0	1166.0
-700.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1207.0
-770.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1277.0
-922.0	CARBONDALE	COLCHESTER	COAL	-	1429.0
-944.0	SPOON	SEELYVILLE	COAL	4.0	1451.0

MAPID: 07902420000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 15 QUARTERS/FOOTAGES: SE SE SW
QUADRANGLE: SAILOR SPRINGS LONGITUDE: -88.306273 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.864995 DATE COLLECTED:
SURFACE ELEVATION (FT.): 478.0 LOGGED (FT.): 1421.5 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
-247.0	BOND	CARTHAGE	LIMESTONE	5.0	725.0
-627.0	CARBONDALE	DANVILLE	COAL	2.0	1105.0
-675.0	CARBONDALE	HERRIN	COAL	4.0	1153.0
-722.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1200.0
-775.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1253.0
-916.0	CARBONDALE	COLCHESTER	COAL	-	1394.0
-939.0	SPOON	SEELYVILLE	COAL	4.5	1417.0

MAPID: 07900016000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 5N 8E

SECTION: 16

QUARTERS/FOOTAGES: 660' S line, 330' E line of NW

QUADRANGLE: SAILOR SPRINGS

LONGITUDE: -88.325116

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.874053

DATE COLLECTED:

SURFACE ELEVATION (FT.): 509.0

LOGGED (FT.): 1428.5

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
-237.0	BOND	CARTHAGE	LIMESTONE	6.0	746.0
-412.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	921.0
-591.0	CARBONDALE	DANVILLE	COAL	2.5	1100.0
-636.0	CARBONDALE	HERRIN	COAL	4.0	1145.0
-683.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1192.0
-766.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1275.0
-891.0	CARBONDALE	COLCHESTER	COAL	-	1400.0
-915.0	SPOON	SEELYVILLE	COAL	4.5	1424.0

MAPID: 07923270000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 16 QUARTERS/FOOTAGES: 701' S line, 2376' E line

QUADRANGLE: SAILOR SPRINGS LONGITUDE: -88.322728 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.866814 DATE COLLECTED: 8 / 5 / 1980

SURFACE ELEVATION (FT.): 503.0 LOGGED (FT.): 1475.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. WELL TYPE: Coal Test

COMMENT: GAMMA, DENS, RESIST, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
503.0			UNCONSOLIDATED	18.0	0.0
485.0	MATTOON		GRAY SHALE	14.0	18.0
471.0	MATTOON		BLACK SHALE	3.5	32.0
467.5	MATTOON		LIMESTONE	0.5	35.5
467.0	MATTOON		SHALE	16.0	36.0
451.0	MATTOON	INGRAHAM	BLACK SHALE	7.0	52.0
444.0	MATTOON		GRAY SHALE	10.0	59.0
434.0	MATTOON		SANDSTONE	45.5	69.0
388.5	MATTOON		LIMESTONE	3.0	114.5
385.5	MATTOON		GRAY SHALE	4.5	117.5
381.0	MATTOON		SANDSTONE	6.0	122.0
375.0	MATTOON		GRAY SHALE	25.0	128.0
350.0	MATTOON	TEUTOPOLIS	BLACK SHALE	3.0	153.0
347.0	MATTOON		GRAY SHALE	15.5	156.0
331.5	MATTOON		LIMESTONE	0.5	171.5
331.0	MATTOON		SANDSTONE	8.0	172.0
323.0	MATTOON		GRAY SHALE	21.0	180.0
302.0	MATTOON		LIMESTONE	5.0	201.0
297.0	MATTOON		GRAY SHALE	13.0	206.0
284.0	MATTOON		SANDSTONE	2.0	219.0
282.0	MATTOON		GRAY SHALE	29.0	221.0
253.0	MATTOON		SANDSTONE	36.0	250.0
217.0	MATTOON		GRAY SHALE	31.0	286.0
186.0	MATTOON		LIMESTONE	0.5	317.0
185.5	MATTOON		GRAY SHALE	23.5	317.5
162.0	MATTOON		LIMESTONE	2.0	341.0
160.0	MATTOON		GRAY SHALE	7.0	343.0
153.0	MATTOON		SANDSTONE	6.0	350.0
147.0	MATTOON		GRAY SHALE	67.0	356.0
80.0	MATTOON		BLACK SHALE	5.0	423.0
75.0	MATTOON		GRAY SHALE	5.0	428.0
70.0	MATTOON		LIMESTONE	3.0	433.0
67.0	MATTOON		SANDSTONE	6.0	436.0
61.0	MATTOON		LIMESTONE	0.5	442.0
60.5	MATTOON		GRAY SHALE	6.5	442.5
54.0	MATTOON		LIMESTONE	3.5	449.0
50.5	MATTOON		GRAY SHALE	1.5	452.5
49.0	MATTOON		SANDSTONE	22.0	454.0
27.0	MATTOON		GRAY SHALE	6.0	476.0

21.0	MATTOON		SANDSTONE	30.0	482.0	
-9.0	MATTOON		GRAY SHALE	4.0	512.0	
-13.0	MATTOON		SANDSTONE	6.0	516.0	
-19.0	MATTOON		GRAY SHALE	14.0	522.0	
-33.0	MATTOON		SANDSTONE	4.0	536.0	
-37.0	MATTOON		LIMESTONE	1.5	540.0	
-38.5	MATTOON		SANDSTONE	2.0	541.5	
-40.5	BOND	MILLERSVILLE	LIMESTONE	4.5	543.5	
-45.0	BOND		GRAY SHALE	117.0	548.0	
-162.0	BOND		SANDSTONE	12.0	665.0	
-174.0	BOND		GRAY SHALE	17.0	677.0	
-191.0	BOND		COAL	1.5	694.0	
-192.5	BOND		GRAY SHALE	13.5	695.5	
-206.0	BOND		LIMESTONE	0.5	709.0	
-206.5	BOND		GRAY SHALE	11.2	709.5	
-217.7	BOND		LIMESTONE	0.5	720.7	
-218.2	BOND		GRAY SHALE	33.8	721.2	
-252.0	BOND	CARTHAGE	LIMESTONE	4.7	755.0	
-256.7	MODESTO	NEW HAVEN	BLACK SHALE	2.3	759.7	
-259.0	MODESTO		GRAY SHALE	157.0	762.0	#8 COAL HORIZON AT ABOUT 850'
-416.0	MODESTO	WEST FRANKLIN	LIMESTONE	18.0	919.0	
-434.0	MODESTO		SANDSTONE	27.0	937.0	
-461.0	MODESTO		GRAY SHALE	133.0	964.0	
-594.0	CARBONDALE	DANVILLE	COAL	3.5	1097.0	
-597.5	CARBONDALE		UNDERCLAY	1.5	1100.5	
-599.0	CARBONDALE		GRAY SHALE	5.0	1102.0	
-604.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.2	1107.0	BANKSTON FORK
-608.2	CARBONDALE		GRAY SHALE	3.3	1111.2	
-611.5	CARBONDALE		LIMESTONE	0.5	1114.5	
-612.0	CARBONDALE		GRAY SHALE	3.0	1115.0	
-615.0	CARBONDALE	CONANT	LIMESTONE	3.0	1118.0	
-618.0	CARBONDALE	JAMESTOWN	COAL	1.5	1121.0	
-619.5	CARBONDALE		GRAY SHALE	15.5	1122.5	
-635.0	CARBONDALE	BRERETON	LIMESTONE	4.0	1138.0	
-639.0	CARBONDALE	BRERETON	LIMESTONE	1.0	1142.0	CORE #1 1142-1151
-640.0	CARBONDALE	ANNA	BLACK SHALE	0.3	1143.0	
-640.3	CARBONDALE	HERRIN	COAL	3.3	1143.3	
-643.6	CARBONDALE	HERRIN	SHALE/COAL	0.5	1146.6	
-644.1	CARBONDALE	HERRIN	COAL	2.3	1147.1	
-646.4	CARBONDALE		UNDERCLAY	1.3	1149.4	
-647.7	CARBONDALE		GRAY SHALE	0.3	1150.7	
-648.0	CARBONDALE		GRAY SHALE	25.5	1151.0	
-673.5	CARBONDALE	BRIAR HILL	COAL	2.5	1176.5	
-676.0	CARBONDALE		GRAY SHALE	6.5	1179.0	
-682.5	CARBONDALE	ST. DAVID	LIMESTONE	1.3	1185.5	
-683.8	CARBONDALE	TURNER MINE	BLACK SHALE	1.7	1186.8	
-685.5	CARBONDALE	SPRINGFIELD	COAL	3.5	1188.5	

-689.0	CARBONDALE		GRAY SHALE	28.0	1192.0	
-717.0	CARBONDALE		SANDSTONE	43.0	1220.0	
-760.0	CARBONDALE	HOUCHIN CREEK	COAL	4.0	1263.0	APPEARS AS BKSH ON E-LOG
-764.0	CARBONDALE		GRAY SHALE	6.0	1267.0	
-770.0	CARBONDALE		LIMESTONE	0.5	1273.0	
-770.5	CARBONDALE		GRAY SHALE	10.5	1273.5	
-781.0	CARBONDALE		SHALY SANDSTONE	48.5	1284.0	
-829.5	CARBONDALE	SURVANT	COAL	1.5	1332.5	
-831.0	CARBONDALE		GRAY SHALE	81.0	1334.0	
-912.0	CARBONDALE	COLCHESTER	COAL	2.5	1415.0	APPEARS AS BKSH ON E-LOG
-914.5	SPOON		GRAY SHALE	1.5	1417.5	
-916.0	SPOON		LIMESTONE	1.0	1419.0	
-917.0	SPOON		LIMESTONE	0.8	1420.0	CORE #2 1420-1435
-917.8	SPOON		UNDERCLAY	1.2	1420.8	
-919.0	SPOON		BLACK SHALE & CLAY	1.0	1422.0	
-920.0	SPOON		CARBONACEOUS SHALE	0.8	1423.0	
-920.8	SPOON		PYRITE	0.2	1423.8	
-921.0	SPOON	SEELYVILLE	COAL	1.0	1424.0	
-922.0	SPOON	SEELYVILLE	GRAY SHALE	1.4	1425.0	
-923.4	SPOON	SEELYVILLE	COAL	1.2	1426.4	
-924.6	SPOON	SEELYVILLE	DARK SHALE & BLACK SHALE	2.0	1427.6	
-926.6	SPOON	SEELYVILLE	GRAY SHALE	3.6	1429.6	
-930.2	SPOON	SEELYVILLE	CORE LOSS	1.8	1433.2	
-932.0	SPOON	SEELYVILLE	GRAY SHALE	6.0	1435.0	CORE #3 1435-1446
-938.0	SPOON	SEELYVILLE	COAL	1.5	1441.0	
-939.5	SPOON	SEELYVILLE	BLACK SHALE	0.4	1442.5	
-939.9	SPOON	SEELYVILLE	COAL	0.9	1442.9	
-940.8	SPOON	SEELYVILLE	PYRITE	0.1	1443.8	
-940.9	SPOON	SEELYVILLE	COAL	1.3	1443.9	
-942.2	SPOON		CORE LOSS	0.8	1445.2	
-943.0	SPOON		GRAY SHALE	29.0	1446.0	

MAPID: 07923172000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 17 QUARTERS/FOOTAGES: 117' N line, 2469' W line
 QUADRANGLE: LATONA LONGITUDE: -88.343204 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.880043 DATE COLLECTED: 12 / 6 / 1979
 SURFACE ELEVATION (FT.): 512.0 LOGGED (FT.): 1376.0 LOG TYPE: Drillers Log
 SOURCE: MOBIL OIL CORP. IG7917-25C WELL TYPE: Coal Test
 COMMENT: GAMMA AND DENSITY LOG AND CORE DESC.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
512.0			UNCONSOLIDATED	21.0	0.0
491.0	MATTOON		GRAY SHALE	9.0	21.0
482.0	MATTOON		BLACK SHALE	7.0	30.0
475.0	MATTOON		GRAY SHALE	14.5	37.0
460.5	MATTOON		LIMESTONE	2.5	51.5
458.0	MATTOON		SHALE	31.0	54.0
427.0	MATTOON		BLACK SHALE	2.0	85.0
425.0	MATTOON		SHALE	26.0	87.0
399.0	MATTOON		SANDSTONE	4.0	113.0
395.0	MATTOON		GRAY SHALE	1.0	117.0
394.0	MATTOON		LIMESTONE	2.0	118.0
392.0	MATTOON		GRAY SHALE	9.0	120.0
383.0	MATTOON		BLACK SHALE	2.0	129.0
381.0	MATTOON		GRAY SHALE	15.0	131.0
366.0	MATTOON		SANDSTONE	8.0	146.0
358.0	MATTOON		UNKNOWN	33.0	154.0
325.0	MATTOON		LIMESTONE	1.0	187.0
324.0	MATTOON		GRAY SHALE	13.5	188.0
310.5	MATTOON		LIMESTONE	2.5	201.5
308.0	MATTOON		GRAY SHALE	95.5	204.0
212.5	MATTOON		LIMESTONE	1.0	299.5
211.5	MATTOON		GRAY SHALE	33.5	300.5
178.0	MATTOON		LIMESTONE	1.0	334.0
177.0	MATTOON		GRAY SHALE	80.5	335.0
96.5	BOND	MILLERSVILLE	LIMESTONE	4.5	415.5
92.0	BOND		SHALE	4.0	420.0
88.0	BOND		SANDSTONE	14.0	424.0
74.0	BOND		GRAY SHALE	18.0	438.0
56.0	BOND		SANDSTONE	4.0	456.0
52.0	BOND		GRAY SHALE	6.0	460.0
46.0	BOND		SANDSTONE	2.0	466.0
44.0	BOND		GRAY SHALE	18.0	468.0
26.0	BOND		LIMESTONE	2.0	486.0
24.0	BOND		GRAY SHALE	22.0	488.0
2.0	BOND		GREEN SHALE	2.0	510.0
0.0	BOND		GRAY SHALE	5.5	512.0
-5.5	BOND		LIMESTONE	3.0	517.5
-8.5	BOND		GRAY SHALE	28.5	520.5
-37.0	BOND		LIMESTONE	2.5	549.0

-39.5	BOND		BLACK SHALE	2.5	551.5	
-42.0	BOND		COAL	1.0	554.0	
-43.0	BOND		GRAY SHALE	54.0	555.0	
-97.0	BOND		BLACK SHALE	2.5	609.0	
-99.5	BOND		LIMESTONE	2.5	611.5	
-102.0	BOND		GRAY SHALE	10.0	614.0	
-112.0	BOND		SANDSTONE	2.0	624.0	
-114.0	BOND		LIMESTONE	3.0	626.0	
-117.0	BOND		GRAY SHALE	31.0	629.0	
-148.0	BOND		SANDSTONE	4.0	660.0	
-152.0	BOND		GRAY SHALE	41.0	664.0	
-193.0	BOND	CARTHAGE	LIMESTONE	5.0	705.0	
-198.0	MODESTO	NEW HAVEN	BLACK SHALE	3.0	710.0	
-201.0	MODESTO		GRAY SHALE	67.0	713.0	
-268.0	MODESTO		SANDSTONE	10.0	780.0	
-278.0	MODESTO		GRAY SHALE	40.0	790.0	
-318.0	MODESTO		SANDSTONE	23.0	830.0	
-341.0	MODESTO	CHAPEL	BLACK SHALE	3.0	853.0	
-344.0	MODESTO		SANDSTONE	14.0	856.0	
-358.0	MODESTO		GRAY SHALE	5.5	870.0	
-363.5	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	875.5	
-380.5	MODESTO		GRAY SHALE	1.5	892.5	
-382.0	MODESTO		SANDSTONE	18.0	894.0	
-400.0	MODESTO		LIMESTONE	0.5	912.0	
-400.5	MODESTO		SANDSTONE	7.5	912.5	
-408.0	MODESTO		GRAY SHALE	4.0	920.0	
-412.0	MODESTO		SANDSTONE	36.0	924.0	
-448.0	MODESTO		GRAY SHALE	91.0	960.0	
-539.0	CARBONDALE	DANVILLE	COAL	3.5	1051.0	
-542.5	CARBONDALE		GRAY SHALE	7.5	1054.5	
-550.0	CARBONDALE		LIMESTONE	1.0	1062.0	
-551.0	CARBONDALE		GRAY SHALE	3.0	1063.0	
-554.0	CARBONDALE		LIMESTONE	6.0	1066.0	
-560.0	CARBONDALE		GRAY SHALE	1.5	1072.0	
-561.5	CARBONDALE		LIMESTONE	2.5	1073.5	
-564.0	CARBONDALE		GRAY SHALE	12.0	1076.0	
-576.0	CARBONDALE		LIMESTONE	0.5	1088.0	
-576.5	CARBONDALE		GRAY SHALE	2.3	1088.5	
-578.8	CARBONDALE	BRERETON	LIMESTONE	4.2	1090.8	
-583.0	CARBONDALE	BRERETON	LIMESTONE	1.2	1095.0	CORE #1 1095-1103
-584.2	CARBONDALE	ANNA	BLACK SHALE & CLAY	0.3	1096.2	
-584.5	CARBONDALE	HERRIN	COAL	5.5	1096.5	
-589.9	CARBONDALE		UNDERCLAY	1.1	1101.9	
-591.0	CARBONDALE		GRAY SHALE	1.5	1103.0	
-592.5	CARBONDALE		LIMESTONE	2.0	1104.5	
-594.5	CARBONDALE		GRAY SHALE	1.5	1106.5	
-596.0	CARBONDALE		LIMESTONE	2.0	1108.0	
-598.0	CARBONDALE		GRAY SHALE	21.8	1110.0	

-619.8	CARBONDALE		LIMESTONE	0.2	1131.8	
-620.0	CARBONDALE	BRIAR HILL	COAL	1.4	1132.0	CORE #2 1132.3 - 1139
-621.4	CARBONDALE		UNDERCLAY & LIMESTONE	1.6	1133.4	
-623.0	CARBONDALE		UNKNOWN	4.0	1135.0	CORE LOSS
-627.0	CARBONDALE	ST. DAVID	LIMESTONE	0.8	1139.0	CORE #3 1139 - 1147
-627.8	CARBONDALE		LIMESTONE W/ SHALE	0.6	1139.8	
-628.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	1140.4	
-629.4	CARBONDALE	SPRINGFIELD	COAL	4.8	1141.4	
-634.2	CARBONDALE		UNDERCLAY	0.9	1146.2	
-635.0	CARBONDALE		CALCAREOUS SHALE	61.0	1147.0	
-696.0	CARBONDALE	HANOVER	LIMESTONE	2.0	1208.0	UNCERTAIN CORRELATION
-698.0	CARBONDALE		SANDSTONE	12.0	1210.0	
-710.0	CARBONDALE	EXCELLO	BLACK SHALE	3.0	1222.0	
-713.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	1225.0	
-715.5	CARBONDALE		SANDSTONE	12.5	1227.5	
-728.0	CARBONDALE		GRAY SHALE	36.0	1240.0	
-764.0	CARBONDALE	SURVANT	COAL	1.0	1276.0	
-765.0	CARBONDALE		GRAY SHALE	26.5	1277.0	
-791.5	CARBONDALE		LIMESTONE	0.5	1303.5	
-792.0	CARBONDALE		COAL	0.5	1304.0	
-792.5	CARBONDALE		GRAY SHALE	39.5	1304.5	
-832.0	CARBONDALE	COLCHESTER	COAL	2.0	1344.0	
-834.0	SPOON		SHALE	0.5	1346.0	
-834.5	SPOON		COAL	0.5	1346.5	
-835.0	SPOON		SHALE	0.5	1347.0	
-835.5	SPOON		COAL	1.0	1347.5	
-836.5	SPOON		SHALE	4.0	1348.5	
-840.5	SPOON		LIMESTONE	4.5	1352.5	
-845.0	SPOON		GRAY SHALE	6.5	1357.0	
-851.5	SPOON	SEELYVILLE	COAL	5.0	1363.5	
-856.5	SPOON		GRAY SHALE	7.5	1368.5	

MAPID: 07900017000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 18 QUARTERS/FOOTAGES: SE NE NE
QUADRANGLE: LATONA LONGITUDE: -88.353015 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.878125 DATE COLLECTED:
SURFACE ELEVATION (FT.): 491.0 LOGGED (FT.): 1346.5 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
-179.0	BOND	CARTHAGE	LIMESTONE	7.0	670.0
-365.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	856.0
-537.0	CARBONDALE	DANVILLE	COAL	2.0	1028.0
-582.0	CARBONDALE	HERRIN	COAL	3.5	1073.0
-625.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1116.0
-715.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1206.0
-817.0	CARBONDALE	COLCHESTER	COAL	-	1308.0
-852.0	SPOON	SEELYVILLE	COAL	3.5	1343.0

MAPID: 07900400000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 18 QUARTERS/FOOTAGES: 330' S line, 330' W line
QUADRANGLE: SAILOR SPRINGS LONGITUDE: -88.360771 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.867373 DATE COLLECTED:
SURFACE ELEVATION (FT.): 508.0 LOGGED (FT.): 1386.0 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	BOND	CARTHAGE	LIMESTONE	6.0	735.0
-560.0	CARBONDALE	DANVILLE	COAL	2.0	1068.0
-603.0	CARBONDALE	HERRIN	COAL	5.0	1111.0
-650.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1158.0
-844.0	CARBONDALE	COLCHESTER	COAL	-	1352.0
-874.0	SPOON	SEELYVILLE	COAL	4.0	1382.0

MAPID: 07901292000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 19 QUARTERS/FOOTAGES: NW NW SE
QUADRANGLE: SAILOR SPRINGS LONGITUDE: -88.359586 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.858289 DATE COLLECTED:
SURFACE ELEVATION (FT.): 509.0 LOGGED (FT.): 1377.0 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
-212.0	BOND	CARTHAGE	LIMESTONE	6.0	721.0
-543.0	CARBONDALE	DANVILLE	COAL	3.5	1052.0
-587.0	CARBONDALE	HERRIN	COAL	5.0	1096.0
-633.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1142.0
-724.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1233.0
-831.0	CARBONDALE	COLCHESTER	COAL	-	1340.0
-864.0	SPOON	SEELYVILLE	COAL	4.0	1373.0

MAPID: 07900529000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 20 QUARTERS/FOOTAGES: NE NW SW
QUADRANGLE: SAILOR SPRINGS LONGITUDE: -88.347952 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.857771 DATE COLLECTED:
SURFACE ELEVATION (FT.): 485.0 LOGGED (FT.): 1359.0 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
-230.0	BOND	CARTHAGE	LIMESTONE	6.0	715.0
-566.0	CARBONDALE	DANVILLE	COAL	2.5	1051.0
-612.0	CARBONDALE	HERRIN	COAL	4.0	1097.0
-658.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1143.0
-751.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1236.0
-861.0	CARBONDALE	COLCHESTER	COAL	-	1346.0
-870.0	SPOON	SEELYVILLE	COAL	4.0	1355.0

MAPID: 07901222000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 20 QUARTERS/FOOTAGES: NE NE NW
QUADRANGLE: SAILOR SPRINGS LONGITUDE: -88.343423 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.864854 DATE COLLECTED:
SURFACE ELEVATION (FT.): 478.0 LOGGED (FT.): 1350.0 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	
-247.0	BOND	CARTHAGE	LIMESTONE	6.0	725.0	
-417.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	895.0	
-577.0	CARBONDALE	DANVILLE	COAL	2.5	1055.0	
-624.0	CARBONDALE	HERRIN	COAL	4.5	1102.0	
-669.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1147.0	
-762.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1240.0	
-872.0	CARBONDALE	COLCHESTER	COAL	-	1350.0	

MAPID: 07900401000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 22 QUARTERS/FOOTAGES: SW NW SW
QUADRANGLE: SAILOR SPRINGS LONGITUDE: -88.313125 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.854375 DATE COLLECTED:
SURFACE ELEVATION (FT.): 502.0 LOGGED (FT.): 1439.0 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	
-285.0	BOND	CARTHAGE	LIMESTONE	6.0	787.0	
-604.0	CARBONDALE	DANVILLE	COAL	-	1106.0	
-652.0	CARBONDALE	HERRIN	COAL	4.5	1154.0	
-696.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1198.0	
-762.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1264.0	
-912.0	CARBONDALE	COLCHESTER	COAL	-	1414.0	
-933.0	SPOON	SEELYVILLE	COAL	4.0	1435.0	

MAPID: 07900602000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 22 QUARTERS/FOOTAGES: NE NE SE

QUADRANGLE: SAILOR SPRINGS LONGITUDE: -88.297093 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.855326 DATE COLLECTED:

SURFACE ELEVATION (FT.): 459.0 LOGGED (FT.): 1410.0 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	BOND	CARTHAGE	LIMESTONE	7.0	736.0
-513.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	972.0
-617.0	CARBONDALE	DANVILLE	COAL	3.0	1076.0
-664.0	CARBONDALE	HERRIN	COAL	4.5	1123.0
-706.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1165.0
-781.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1240.0
-823.0	CARBONDALE	COLCHESTER	COAL	-	1282.0
-946.0	SPOON	SEELYVILLE	COAL	5.0	1405.0

MAPID: 07922759000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 22 QUARTERS/FOOTAGES: 1333' N line, 60' E line

QUADRANGLE: SAILOR SPRINGS LONGITUDE: -88.296159 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.859775 DATE COLLECTED:

SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 1175.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. IG-78-1A WELL TYPE: Coal Test

COMMENT: GAMMA, DENSITY AND RESISTIVITY LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
342.0	MATTOON		DARK SHALE	4.0	118.0
338.0	MATTOON		UNCLASSIFIED	260.5	122.0
77.5	MATTOON		DARK SHALE	3.0	382.5
74.5	MATTOON		UNCLASSIFIED	230.5	385.5
-156.0	MATTOON		DARK SHALE	3.5	616.0
-159.5	MATTOON		UNCLASSIFIED	105.5	619.5
-265.0	BOND	CARTHAGE	LIMESTONE	5.0	725.0
-270.0			BLACK SHALE	3.0	730.0
-273.0	MODESTO		UNCLASSIFIED	45.0	733.0
-318.0	MODESTO	CHAPEL	BLACK SHALE	3.0	778.0
-321.0	MODESTO		UNCLASSIFIED	43.0	781.0
-364.0	MODESTO	TRIVOLI	SANDSTONE	150.0	824.0
-514.0	MODESTO		UNCLASSIFIED	83.0	974.0
-597.0	CARBONDALE	DANVILLE	COAL	2.5	1057.0
-599.5	CARBONDALE		UNCLASSIFIED	20.3	1059.5
-619.8	CARBONDALE	JAMESTOWN	COAL	1.5	1079.8
-621.3	CARBONDALE		UNCLASSIFIED	18.8	1081.3
-640.0	CARBONDALE	BRERETON	LIMESTONE	3.0	1100.0
-643.0	CARBONDALE		SHALE	2.0	1103.0
-645.0	CARBONDALE	HERRIN	COAL	6.0	1105.0
-651.0	CARBONDALE		UNKNOWN	25.5	1111.0
-676.5	CARBONDALE	BRIAR HILL	COAL	3.0	1136.5
-679.5	CARBONDALE		UNCLASSIFIED	5.0	1139.5
-684.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	1144.5
-686.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1146.0
-690.5	CARBONDALE		UNCLASSIFIED	24.5	1150.5

MAPID: 07900402000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 8E SECTION: 24 QUARTERS/FOOTAGES: NW NW NW
QUADRANGLE: SAILOR SPRINGS LONGITUDE: -88.276311 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.861776 DATE COLLECTED:
SURFACE ELEVATION (FT.): 503.0 LOGGED (FT.): 1449.0 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	5.0	775.0
-621.0	CARBONDALE	DANVILLE	COAL	2.0	1124.0
-663.0	CARBONDALE	HERRIN	COAL	4.0	1166.0
-700.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1203.0
-777.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1280.0
-921.0	CARBONDALE	COLCHESTER	COAL	-	1424.0
-942.0	SPOON	SEELYVILLE	COAL	4.0	1445.0

MAPID: 07901418000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 1 QUARTERS/FOOTAGES: 470' S line, 564' W line of NE
QUADRANGLE: NEWTON LONGITUDE: -88.158135 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.900056 DATE COLLECTED:
SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 1402.0 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
-180.0	BOND	CARTHAGE	LIMESTONE	5.0	720.0
-521.0	CARBONDALE	DANVILLE	COAL	-	1061.0
-579.0	CARBONDALE	HERRIN	COAL	-	1119.0
-610.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1150.0
-683.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1223.0
-837.0	CARBONDALE	COLCHESTER	COAL	-	1377.0
-854.0	SPOON	SEELYVILLE	COAL	8.0	1394.0

MAPID: 07901419000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 1 QUARTERS/FOOTAGES: 932' S line, 868' E line of NE
QUADRANGLE: NEWTON LONGITUDE: -88.153912 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.901429 DATE COLLECTED:
SURFACE ELEVATION (FT.): 543.0 LOGGED (FT.): 1395.0 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	
-171.0	BOND	CARTHAGE	LIMESTONE	7.0	714.0	
-514.0	CARBONDALE	DANVILLE	COAL	3.0	1057.0	
-574.0	CARBONDALE	HERRIN	COAL	-	1117.0	
-605.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1148.0	
-677.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1220.0	
-826.0	CARBONDALE	COLCHESTER	COAL	-	1369.0	
-846.0	SPOON	SEELYVILLE	COAL	6.0	1389.0	

MAPID: 07901422000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 1 QUARTERS/FOOTAGES: SE SW SE
QUADRANGLE: NEWTON LONGITUDE: -88.156462 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.892154 DATE COLLECTED:
SURFACE ELEVATION (FT.): 527.0 LOGGED (FT.): 1355.0 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	BOND	CARTHAGE	LIMESTONE	5.0	689.0	
-502.0	CARBONDALE	DANVILLE	COAL	-	1029.0	
-554.0	CARBONDALE	HERRIN	COAL	-	1081.0	
-589.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1116.0	
-660.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1187.0	
-809.0	CARBONDALE	COLCHESTER	COAL	-	1336.0	
-824.0	SPOON	SEELYVILLE	COAL	4.0	1351.0	

MAPID: 07923492000C **VERSION:** 1 **PROJECT:** AVAIL
COUNTY: JASPER **TWP/RNG:** 5N 9E **SECTION:** 1 **QUARTERS/FOOTAGES:** 990' N line, 330' E line of NE
QUADRANGLE: NEWTON **LONGITUDE:** -88.152056 **GEOLOGIST:** CHENOWITH
CONFIDENTIAL: N **LATITUDE:** 38.903691 **DATE COLLECTED:** 4 / 30 / 1981
SURFACE ELEVATION (FT.): 551.0 **LOGGED (FT.):** 3040.0 **LOG TYPE:** Induction Log
SOURCE: WILCOX OIL CORPORATION **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-592.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1143.0	
-830.0	SPOON	SEELYVILLE	COAL	6.5	1381.0	WITH THIN PARTING

MAPID: 07923645000C **VERSION:** 1 **PROJECT:** AVAIL
COUNTY: JASPER **TWP/RNG:** 5N 9E **SECTION:** 1 **QUARTERS/FOOTAGES:** 430' S line, 330' E line of SE
QUADRANGLE: NEWTON **LONGITUDE:** -88.15184 **GEOLOGIST:** CHENOWITH
CONFIDENTIAL: N **LATITUDE:** 38.892567 **DATE COLLECTED:** 6 / 15 / 1982
SURFACE ELEVATION (FT.): 532.0 **LOGGED (FT.):** 3120.0 **LOG TYPE:** Induction Log
SOURCE: VIRGIL LANE **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-822.0	SPOON	SEELYVILLE	COAL	2.5	1354.0	
-824.5	SPOON	SEELYVILLE	SHALE	2.0	1356.5	
-826.5	SPOON	SEELYVILLE	COAL	2.5	1358.5	

MAPID: 07900531000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 5N 9E **SECTION:** 2 **QUARTERS/FOOTAGES:** SE SE NW
QUADRANGLE: NEWTON **LONGITUDE:** -88.179797 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.899531 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 553.0 **LOGGED (FT.):** 1436.5 **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	
-207.0	BOND	CARTHAGE	LIMESTONE	6.0	760.0	
-549.0	CARBONDALE	DANVILLE	COAL	-	1102.0	
-607.0	CARBONDALE	HERRIN	COAL	3.5	1160.0	
-641.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1194.0	
-710.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1263.0	
-859.0	CARBONDALE	COLCHESTER	COAL	-	1412.0	
-880.0	SPOON	SEELYVILLE	COAL	3.5	1433.0	

MAPID: 07901380000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 2 QUARTERS/FOOTAGES: NW NW SW
QUADRANGLE: NEWTON LONGITUDE: -88.186616 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.897651 DATE COLLECTED:
SURFACE ELEVATION (FT.): 550.0 LOGGED (FT.): 1419.0 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	BOND	CARTHAGE	LIMESTONE	6.0	760.0
-472.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	1022.0
-561.0	CARBONDALE	DANVILLE	COAL	2.0	1111.0
-628.0	CARBONDALE	HERRIN	COAL	-	1178.0
-650.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1200.0
-715.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1265.0
-869.0	CARBONDALE	COLCHESTER	COAL	-	1419.0

MAPID: 07900409000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 3 QUARTERS/FOOTAGES: SW SE SE
QUADRANGLE: NEWTON LONGITUDE: -88.190975 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.891929 DATE COLLECTED:
SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 1431.5 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
-206.0	BOND	CARTHAGE	LIMESTONE	6.0	746.0
-570.0	CARBONDALE	DANVILLE	COAL	2.0	1110.0
-624.0	CARBONDALE	HERRIN	COAL	-	1164.0
-662.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1202.0
-728.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1268.0
-878.0	CARBONDALE	COLCHESTER	COAL	-	1418.0
-886.0	SPOON	SEELYVILLE	COAL	5.5	1426.0

MAPID: 07901436000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 5N 9E **SECTION:** 3 **QUARTERS/FOOTAGES:** NE SE NW
QUADRANGLE: NEWTON **LONGITUDE:** -88.198365 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.901419 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 550.0 **LOGGED (FT.):** 1412.0 **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
-202.0	BOND	CARTHAGE	LIMESTONE	5.0	752.0
-564.0	CARBONDALE	DANVILLE	COAL	-	1114.0
-615.0	CARBONDALE	HERRIN	COAL	-	1165.0
-653.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1203.0
-720.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1270.0
-862.0	CARBONDALE	COLCHESTER	COAL	-	1412.0

MAPID: 07924199000C **VERSION:** 1 **PROJECT:** AVAIL
COUNTY: JASPER **TWP/RNG:** 5N 9E **SECTION:** 3 **QUARTERS/FOOTAGES:** 330' S line, 330' W line of SW
QUADRANGLE: NEWTON **LONGITUDE:** -88.205017 **GEOLOGIST:** CHENOWITH
CONFIDENTIAL: N **LATITUDE:** 38.891987 **DATE COLLECTED:** 1 / 29 / 1985
SURFACE ELEVATION (FT.): 549.0 **LOGGED (FT.):** 3720.0 **LOG TYPE:** Nuclear Log
SOURCE: GULF COAST EXPLORATION **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-548.0	CARBONDALE	DANVILLE	COAL	2.5	1097.0
-601.0	CARBONDALE	HERRIN	COAL	6.3	1150.0
-624.0	CARBONDALE	BRIAR HILL	COAL	2.3	1173.0
-637.0	CARBONDALE	SPRINGFIELD	COAL	3.3	1186.0
-868.0	SPOON	SEELYVILLE	COAL	2.0	1417.0
-870.0	SPOON	SEELYVILLE	SHALE	1.5	1419.0
-871.5	SPOON	SEELYVILLE	COAL	1.5	1420.5

MAPID: 07924402000C VERSION: 1

PROJECT: AVAIL

COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 3 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE SW
QUADRANGLE: NEWTON LONGITUDE: -88.200469 GEOLOGIST: CHENOWITH
CONFIDENTIAL: N LATITUDE: 38.895722 DATE COLLECTED: 7 / 25 / 1985
SURFACE ELEVATION (FT.): 560.0 LOGGED (FT.): 3630.0 LOG TYPE: Nuclear Log
SOURCE: GULF COAST EXPLORATIONS, INC. WELL TYPE: Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-543.0	CARBONDALE	DANVILLE	COAL	4.0	1103.0	
-595.0	CARBONDALE	HERRIN	COAL	5.5	1155.0	
-620.0	CARBONDALE	BRIAR HILL	COAL	3.5	1180.0	
-633.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1193.0	
-861.0	SPOON	SEELYVILLE	COAL	6.0	1421.0	WITH PARTING

MAPID: 07900415000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 4 QUARTERS/FOOTAGES: NW NW SE
QUADRANGLE: NEWTON LONGITUDE: -88.21461 GEOLOGIST: C TREWORYG
CONFIDENTIAL: N LATITUDE: 38.897588 DATE COLLECTED:
SURFACE ELEVATION (FT.): 549.0 LOGGED (FT.): 1467.0 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	
-239.0	BOND	CARTHAGE	LIMESTONE	6.0	788.0	
-589.0	CARBONDALE	DANVILLE	COAL	4.0	1138.0	
-646.0	CARBONDALE	HERRIN	COAL	6.0	1195.0	
-681.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1230.0	
-751.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1300.0	
-893.0	CARBONDALE	COLCHESTER	COAL	-	1442.0	
-913.0	SPOON	SEELYVILLE	COAL	5.0	1462.0	

MAPID: 07900532000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 5N 9E

SECTION: 4

QUARTERS/FOOTAGES: NW SW SW

QUADRANGLE: NEWTON

LONGITUDE: -88.22404

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.893838

DATE COLLECTED:

SURFACE ELEVATION (FT.): 541.0

LOGGED (FT.): 1466.5

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	
-269.0	BOND	CARTHAGE	LIMESTONE	5.0	810.0	
-591.0	CARBONDALE	DANVILLE	COAL	3.5	1132.0	
-644.0	CARBONDALE	HERRIN	COAL	5.0	1185.0	
-682.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1223.0	
-752.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1293.0	
-901.0	CARBONDALE	COLCHESTER	COAL	-	1442.0	
-920.0	SPOON	SEELYVILLE	COAL	5.5	1461.0	

MAPID: 07923153000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 4 QUARTERS/FOOTAGES: 2444' N line, 1275' E line

QUADRANGLE: NEWTON LONGITUDE: -88.210895 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.899253 DATE COLLECTED: 11 / 12 / 1979

SURFACE ELEVATION (FT.): 543.0 LOGGED (FT.): 1240.0 LOG TYPE: Drillers Log

SOURCE: MOBIL OIL CORP. IG79-4-23C WELL TYPE: Coal Test

COMMENT: GAMMA, DENSITY AND RESISTIVITY LOG DONE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
543.0			UNCONSOLIDATED	12.0	0.0
531.0	MATTOON		GRAY SHALE	19.0	12.0
512.0	MATTOON		BLACK SHALE	1.0	31.0
511.0	MATTOON		SANDSTONE	1.0	32.0
510.0	MATTOON		GRAY SHALE	9.0	33.0
501.0	MATTOON		SANDSTONE	8.0	42.0
493.0	MATTOON		GRAY SHALE	28.0	50.0
465.0	MATTOON		LIMESTONE	2.0	78.0
463.0	MATTOON		GRAY SHALE	47.5	80.0
415.5	MATTOON		LIMESTONE	1.5	127.5
414.0	MATTOON		GRAY SHALE	35.0	129.0
379.0	MATTOON		SANDSTONE	6.0	164.0
373.0	MATTOON		GRAY SHALE	15.5	170.0
357.5	MATTOON		LIMESTONE	2.5	185.5
355.0	MATTOON		GRAY SHALE	113.0	188.0
242.0	MATTOON		LIMESTONE	1.0	301.0
241.0	MATTOON		GRAY SHALE	28.0	302.0
213.0	MATTOON		LIMESTONE	1.0	330.0
212.0	MATTOON		GRAY SHALE	17.0	331.0
195.0	MATTOON		LIMESTONE AND SANDSTONE	3.0	348.0
192.0	MATTOON		SANDSTONE	3.0	351.0
189.0	MATTOON		GRAY SHALE	29.0	354.0
160.0	MATTOON		SANDSTONE	9.0	383.0
151.0	MATTOON		GRAY SHALE	124.0	392.0
27.0	MATTOON		SANDSTONE	14.0	516.0
13.0	MATTOON		GRAY SHALE	6.0	530.0
7.0	MATTOON		SHALE/COAL	3.0	536.0
4.0	MATTOON		GRAY SHALE	3.0	539.0
1.0	MATTOON		SANDSTONE	36.0	542.0
-35.0	MATTOON		GRAY SHALE	10.0	578.0
-45.0	BOND	MILLERSVILLE	LIMESTONE	4.5	588.0
-49.5	BOND		SANDSTONE	3.5	592.5
-53.0	BOND		GRAY SHALE	92.0	596.0
-145.0	BOND		LIMESTONE	0.5	688.0
-145.5	BOND		COAL	2.0	688.5
-147.5	BOND		GRAY SHALE	5.5	690.5
-153.0	BOND		SANDSTONE	18.0	696.0
-171.0	BOND		GRAY SHALE	13.0	714.0

-184.0	BOND		COAL	2.0	727.0	
-186.0	BOND		GRAY SHALE	15.0	729.0	
-201.0	BOND		SANDSTONE/SHALE	16.0	744.0	
-217.0	BOND		GRAY SHALE	21.0	760.0	
-238.0	BOND	CARTHAGE	LIMESTONE	4.5	781.0	
-242.5	MODESTO		GRAY SHALE	2.5	785.5	
-245.0	MODESTO	NEW HAVEN	BLACK SHALE	1.0	788.0	
-246.0	MODESTO		GRAY SHALE	75.0	789.0	#8 HORIZON AT 846-850'
-321.0	MODESTO		SHALE & SANDSTONE	16.0	864.0	
-337.0	MODESTO		GRAY SHALE	138.0	880.0	
-475.0	MODESTO		SANDSTONE	2.0	1018.0	
-477.0	MODESTO		GRAY SHALE	73.0	1020.0	W.FR. GONE
-550.0	MODESTO		LIMESTONE	5.0	1093.0	
-555.0	MODESTO		GRAY SHALE	29.5	1098.0	
-584.5	CARBONDALE	DANVILLE	COAL	3.5	1127.5	
-588.0	CARBONDALE		GRAY SHALE	5.5	1131.0	
-593.5	CARBONDALE	BANKSTON FORK	LIMESTONE	2.0	1136.5	
-595.5	CARBONDALE	BANKSTON FORK	GRAY SHALE	1.5	1138.5	
-597.0	CARBONDALE	BANKSTON FORK	LIMESTONE	1.5	1140.0	
-598.5	CARBONDALE		GRAY SHALE	22.2	1141.5	
-620.7	CARBONDALE	CONANT	LIMESTONE	1.8	1163.7	
-622.5	CARBONDALE	JAMESTOWN	COAL	2.3	1165.5	
-624.8	CARBONDALE	JAMESTOWN	GRAY SHALE	2.2	1167.8	
-627.0	CARBONDALE	JAMESTOWN	COAL	1.0	1170.0	
-628.0	CARBONDALE		GRAY SHALE	4.5	1171.0	
-632.5	CARBONDALE	BRERETON	LIMESTONE	6.0	1175.5	
-638.5	CARBONDALE		UNCLASSIFIED	0.5	1181.5	"SMUT" ANNA SH.
-639.0	CARBONDALE	HERRIN	COAL	5.3	1182.0	CORE #1 1182-1189
-644.3	CARBONDALE		UNDERCLAY	1.7	1187.3	
-646.0	CARBONDALE		GRAY SHALE	18.5	1189.0	
-664.5	CARBONDALE	BRIAR HILL	COAL	2.3	1207.5	
-666.8	CARBONDALE		GRAY SHALE	4.9	1209.8	
-671.7	CARBONDALE		BLACK SHALE	1.3	1214.7	
-673.0	CARBONDALE	ST. DAVID	LIMESTONE	3.5	1216.0	CORE #2 1216-1226
-676.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.9	1219.5	
-677.4	CARBONDALE	SPRINGFIELD	COAL	2.3	1220.4	
-679.7	CARBONDALE	SPRINGFIELD	PYRITE	0.2	1222.7	
-679.9	CARBONDALE	SPRINGFIELD	COAL	1.8	1222.9	
-681.6	CARBONDALE		UNDERCLAY	0.1	1224.6	
-681.7	CARBONDALE		CORE LOSS	1.3	1224.7	CORE LOSS
-683.0	CARBONDALE		GRAY SHALE	14.0	1226.0	

MAPID: 07900416000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 5 QUARTERS/FOOTAGES: NW SE NE
QUADRANGLE: NEWTON LONGITUDE: -88.228759 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.901222 DATE COLLECTED:
SURFACE ELEVATION (FT.): 542.0 LOGGED (FT.): 1481.5 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
-258.0	BOND	CARTHAGE	LIMESTONE	4.0	800.0
-611.0	CARBONDALE	DANVILLE	COAL	2.5	1153.0
-664.0	CARBONDALE	HERRIN	COAL	5.0	1206.0
-704.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1246.0
-776.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1318.0
-919.0	CARBONDALE	COLCHESTER	COAL	-	1461.0
-933.0	SPOON	SEELYVILLE	COAL	6.5	1475.0

MAPID: 07900533000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 5 QUARTERS/FOOTAGES: SW NW NW
QUADRANGLE: NEWTON LONGITUDE: -88.242837 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.90293 DATE COLLECTED:
SURFACE ELEVATION (FT.): 542.0 LOGGED (FT.): 1462.0 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
-259.0	BOND	CARTHAGE	LIMESTONE	8.0	801.0
-448.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	990.0
-602.0	CARBONDALE	DANVILLE	COAL	-	1144.0
-651.0	CARBONDALE	HERRIN	COAL	4.0	1193.0
-685.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1227.0
-758.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1300.0
-900.0	CARBONDALE	COLCHESTER	COAL	-	1442.0
-916.0	SPOON	SEELYVILLE	COAL	4.0	1458.0

MAPID: 07900534000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 5 QUARTERS/FOOTAGES: NE NE SW
QUADRANGLE: NEWTON LONGITUDE: -88.235768 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.897481 DATE COLLECTED:
SURFACE ELEVATION (FT.): 537.0 LOGGED (FT.): 1459.5 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
-239.0	BOND	CARTHAGE	LIMESTONE	6.0	776.0
-443.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	980.0
-588.0	CARBONDALE	DANVILLE	COAL	3.0	1125.0
-638.0	CARBONDALE	HERRIN	COAL	5.5	1175.0
-675.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1212.0
-747.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1284.0
-900.0	CARBONDALE	COLCHESTER	COAL	-	1437.0
-917.0	SPOON	SEELYVILLE	COAL	5.5	1454.0

MAPID: 07901437000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 5 QUARTERS/FOOTAGES: SW NW NE
QUADRANGLE: NEWTON LONGITUDE: -88.233458 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.903024 DATE COLLECTED:
SURFACE ELEVATION (FT.): 532.0 LOGGED (FT.): 1474.0 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
-511.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	1043.0
-613.0	CARBONDALE	DANVILLE	COAL	2.5	1145.0
-662.0	CARBONDALE	HERRIN	COAL	4.0	1194.0
-698.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1230.0
-774.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1306.0
-918.0	CARBONDALE	COLCHESTER	COAL	-	1450.0
-936.0	SPOON	SEELYVILLE	COAL	6.0	1468.0

MAPID: 07901439000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 5 QUARTERS/FOOTAGES: SE SE SE
QUADRANGLE: NEWTON LONGITUDE: -88.226388 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.891978 DATE COLLECTED:
SURFACE ELEVATION (FT.): 541.0 LOGGED (FT.): 1463.5 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
-263.0	BOND	CARTHAGE	LIMESTONE	6.0	804.0
-583.0	CARBONDALE	DANVILLE	COAL	3.0	1124.0
-635.0	CARBONDALE	HERRIN	COAL	5.5	1176.0
-672.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1213.0
-744.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1285.0
-899.0	CARBONDALE	COLCHESTER	COAL	-	1440.0
-916.0	SPOON	SEELYVILLE	COAL	6.5	1457.0

MAPID: 07901095000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 6 QUARTERS/FOOTAGES: 330' N line, 330' E line of NW
QUADRANGLE: LATONA LONGITUDE: -88.25307 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.904896 DATE COLLECTED:
SURFACE ELEVATION (FT.): 539.0 LOGGED (FT.): 1472.0 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
-233.0	BOND	CARTHAGE	LIMESTONE	5.0	772.0
-601.0	CARBONDALE	DANVILLE	COAL	3.0	1140.0
-648.0	CARBONDALE	HERRIN	COAL	5.5	1187.0
-683.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1222.0
-761.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1300.0
-914.0	CARBONDALE	COLCHESTER	COAL	-	1453.0
-928.0	SPOON	SEELYVILLE	COAL	5.0	1467.0

MAPID: 07900417000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 7 QUARTERS/FOOTAGES: NW SW SE
QUADRANGLE: LATONA LONGITUDE: -88.252124 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.87933 DATE COLLECTED:
SURFACE ELEVATION (FT.): 499.0 LOGGED (FT.): 1436.0 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	BOND	CARTHAGE	LIMESTONE	6.0	736.0
-431.0	MODESTO	TRIVOLI	SANDSTONE	50.0	930.0
-611.0	CARBONDALE	DANVILLE	COAL	3.0	1110.0
-653.0	CARBONDALE	HERRIN	COAL	5.0	1152.0
-688.0	CARBONDALE	SPRINGFIELD	COAL	-	1187.0
-761.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1260.0
-909.0	CARBONDALE	COLCHESTER	COAL	-	1408.0
-931.0	SPOON	SEELYVILLE	COAL	6.0	1430.0

MAPID: 07900301000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 8 QUARTERS/FOOTAGES: SE NW SE
QUADRANGLE: NEWTON LONGITUDE: -88.231027 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.881076 DATE COLLECTED:
SURFACE ELEVATION (FT.): 533.0 LOGGED (FT.): 1433.5 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
-239.0	BOND	CARTHAGE	LIMESTONE	6.0	772.0
-395.0	MODESTO	TRIVOLI	SANDSTONE	46.0	928.0
-569.0	CARBONDALE	DANVILLE	COAL	3.0	1102.0
-617.0	CARBONDALE	HERRIN	COAL	6.0	1150.0
-652.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1185.0
-723.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1256.0
-873.0	CARBONDALE	COLCHESTER	COAL	-	1406.0
-894.0	SPOON	SEELYVILLE	COAL	6.5	1427.0

MAPID: 07900535000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 8 QUARTERS/FOOTAGES: NW NE NE
QUADRANGLE: NEWTON LONGITUDE: -88.228717 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.89014 DATE COLLECTED:
SURFACE ELEVATION (FT.): 539.0 LOGGED (FT.): 1455.5 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
-246.0	BOND	CARTHAGE	LIMESTONE	6.0	785.0
-429.0	MODESTO	TRIVOLI	SANDSTONE	20.0	968.0
-582.0	CARBONDALE	DANVILLE	COAL	3.5	1121.0
-632.0	CARBONDALE	HERRIN	COAL	6.5	1171.0
-666.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1205.0
-737.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1276.0
-888.0	CARBONDALE	COLCHESTER	COAL	-	1427.0
-911.0	SPOON	SEELYVILLE	COAL	5.5	1450.0

MAPID: 07901191000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 8 QUARTERS/FOOTAGES: 330' N line, 580' E line of SE NW
QUADRANGLE: NEWTON LONGITUDE: -88.236603 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.886509 DATE COLLECTED:
SURFACE ELEVATION (FT.): 525.0 LOGGED (FT.): 1428.0 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
-215.0	BOND	CARTHAGE	LIMESTONE	6.0	740.0
-325.0	MODESTO	TRIVOLI	SANDSTONE	130.0	850.0
-485.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	1010.0
-581.0	CARBONDALE	DANVILLE	COAL	-	1106.0
-625.0	CARBONDALE	HERRIN	COAL	4.0	1150.0
-660.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1185.0
-731.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1256.0
-880.0	CARBONDALE	COLCHESTER	COAL	-	1405.0
-898.0	SPOON	SEELYVILLE	COAL	5.0	1423.0

MAPID: 07900207000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 9 QUARTERS/FOOTAGES: SE NE NE
QUADRANGLE: NEWTON LONGITUDE: -88.207337 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.888363 DATE COLLECTED:
SURFACE ELEVATION (FT.): 534.0 LOGGED (FT.): 1443.0 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	BOND	CARTHAGE	LIMESTONE	5.0	740.0
-330.0	MODESTO	TRIVOLI	SANDSTONE	112.0	864.0
-560.0	CARBONDALE	DANVILLE	COAL	-	1094.0
-617.0	CARBONDALE	HERRIN	COAL	5.0	1151.0
-660.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1194.0
-718.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1252.0
-880.0	CARBONDALE	COLCHESTER	COAL	-	1414.0
-903.0	SPOON	SEELYVILLE	COAL	6.0	1437.0

MAPID: 07901096000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 9 QUARTERS/FOOTAGES: NW NW NW
QUADRANGLE: NEWTON LONGITUDE: -88.224022 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.890146 DATE COLLECTED:
SURFACE ELEVATION (FT.): 527.0 LOGGED (FT.): 1453.0 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	BOND	CARTHAGE	LIMESTONE	6.0	788.0
-584.0	CARBONDALE	DANVILLE	COAL	2.5	1111.0
-637.0	CARBONDALE	HERRIN	COAL	5.5	1164.0
-675.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1202.0
-748.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1275.0
-899.0	CARBONDALE	COLCHESTER	COAL	-	1426.0
-920.0	SPOON	SEELYVILLE	COAL	6.0	1447.0

MAPID: 07901357000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 5N 9E

SECTION: 9

QUARTERS/FOOTAGES: NW NE NE

QUADRANGLE: NEWTON

LONGITUDE: -88.209728

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.890173

DATE COLLECTED:

SURFACE ELEVATION (FT.): 529.0

LOGGED (FT.): 1416.0

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
-218.0	BOND	CARTHAGE	LIMESTONE	5.0	747.0
-321.0	MODESTO	TRIVOLI	SANDSTONE	125.0	850.0
-557.0	CARBONDALE	DANVILLE	COAL	3.0	1086.0
-612.0	CARBONDALE	HERRIN	COAL	5.0	1141.0
-647.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1176.0
-716.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1245.0
-865.0	CARBONDALE	COLCHESTER	COAL	-	1394.0
-881.0	SPOON	SEELYVILLE	COAL	6.0	1410.0

MAPID: 07922760000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 9 QUARTERS/FOOTAGES: 2610' S line, 50' W line
 QUADRANGLE: NEWTON LONGITUDE: -88.224992 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.883726 DATE COLLECTED: 8 / 4 / 1978
 SURFACE ELEVATION (FT.): 530.0 LOGGED (FT.): 1212.5 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG-78-11 WELL TYPE: Coal Test
 COMMENT: GAMMA, DENSITY AND RESISTIVITY LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
428.5	MATTOON		LIMESTONE	2.5	101.5	
426.0	MATTOON		UNCLASSIFIED	73.0	104.0	
353.0	MATTOON		BLACK SHALE	4.0	177.0	
349.0	MATTOON		UNCLASSIFIED	261.0	181.0	
88.0	MATTOON		BLACK SHALE	3.0	442.0	
85.0	MATTOON		UNCLASSIFIED	122.0	445.0	
-37.0	BOND	MILLERSVILLE	LIMESTONE	3.0	567.0	
-40.0	BOND		UNCLASSIFIED	95.0	570.0	
-135.0	BOND		BLACK SHALE	4.0	665.0	
-139.0	BOND		COAL	1.0	669.0	
-140.0	BOND		UNCLASSIFIED	35.5	670.0	
-175.5	BOND		COAL	1.5	705.5	
-177.0	BOND		UNCLASSIFIED	48.0	707.0	
-225.0	BOND	CARTHAGE	LIMESTONE	5.0	755.0	
-230.0	MODESTO	NEW HAVEN	BLACK SHALE	8.0	760.0	
-238.0	MODESTO		UNCLASSIFIED	59.0	768.0	
-297.0	MODESTO	CHAPEL	BLACK SHALE	4.0	827.0	
-301.0	MODESTO		UNCLASSIFIED	279.0	831.0	
-580.0	CARBONDALE	DANVILLE	COAL	3.0	1110.0	
-583.0	CARBONDALE		UNCLASSIFIED	28.0	1113.0	
-611.0	CARBONDALE	CONANT	LIMESTONE	1.0	1141.0	
-612.0	CARBONDALE		UNCLASSIFIED	2.0	1142.0	
-614.0	CARBONDALE	JAMESTOWN	COAL	2.0	1144.0	
-616.0	CARBONDALE		UNCLASSIFIED	6.0	1146.0	
-622.0	CARBONDALE	BRERETON	LIMESTONE	4.0	1152.0	
-626.0	CARBONDALE		SHALE	2.5	1156.0	
-628.5	CARBONDALE	HERRIN	COAL	5.5	1158.5	
-634.0	CARBONDALE		UNCLASSIFIED	22.5	1164.0	
-656.5	CARBONDALE	BRIAR HILL	COAL	2.0	1186.5	
-658.5	CARBONDALE		UNKNOWN	5.5	1188.5	ST. DAVID LS. GONE
-664.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	1194.0	
-665.5	CARBONDALE	SPRINGFIELD	COAL	4.5	1195.5	
-670.0	CARBONDALE		UNKNOWN	12.5	1200.0	

MAPID: 07900220000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 10 QUARTERS/FOOTAGES: NE NE NW
QUADRANGLE: NEWTON LONGITUDE: -88.197951 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.890111 DATE COLLECTED:
SURFACE ELEVATION (FT.): 548.0 LOGGED (FT.): 1442.5 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	BOND	CARTHAGE	LIMESTONE	6.0	755.0
-560.0	CARBONDALE	DANVILLE	COAL	2.0	1108.0
-615.0	CARBONDALE	HERRIN	COAL	-	1163.0
-650.0	CARBONDALE	SPRINGFIELD	COAL	-	1198.0
-712.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1260.0
-872.0	CARBONDALE	COLCHESTER	COAL	-	1420.0
-887.0	SPOON	SEELYVILLE	COAL	7.5	1435.0

MAPID: 07900307000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 10 QUARTERS/FOOTAGES: SE SE SW
QUADRANGLE: NEWTON LONGITUDE: -88.197846 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.877307 DATE COLLECTED:
SURFACE ELEVATION (FT.): 536.0 LOGGED (FT.): 1468.0 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	BOND	CARTHAGE	LIMESTONE	7.0	775.0
-489.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	1025.0
-593.0	CARBONDALE	DANVILLE	COAL	-	1129.0
-644.0	CARBONDALE	HERRIN	COAL	-	1180.0
-682.0	CARBONDALE	SPRINGFIELD	COAL	-	1218.0
-744.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1280.0
-901.0	CARBONDALE	COLCHESTER	COAL	-	1437.0
-926.0	SPOON	SEELYVILLE	COAL	6.0	1462.0

MAPID: 07924232000C VERSION: 1

PROJECT: AVAIL

COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 10 QUARTERS/FOOTAGES: 330' N line, 330' W line of NW
QUADRANGLE: NEWTON LONGITUDE: -88.204987 GEOLOGIST: CHENOWITH
CONFIDENTIAL: N LATITUDE: 38.890165 DATE COLLECTED: 1 / 29 / 1985
SURFACE ELEVATION (FT.): 545.0 LOGGED (FT.): 3729.0 LOG TYPE: Nuclear Log
SOURCE: GULF COAST EXPLORATION, INC. WELL TYPE: Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-548.0	CARBONDALE	DANVILLE	COAL	3.0	1093.0
-605.0	CARBONDALE	HERRIN	COAL	5.3	1150.0
-641.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1186.0
-871.0	SPOON	SEELYVILLE	COAL	2.0	1416.0
-873.0	SPOON	SEELYVILLE	SHALE	1.0	1418.0
-874.0	SPOON	SEELYVILLE	COAL	2.0	1419.0

MAPID: 07900418000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 11 QUARTERS/FOOTAGES: SW SW NE
QUADRANGLE: NEWTON LONGITUDE: -88.176959 GEOLOGIST: C TREWORYG
CONFIDENTIAL: N LATITUDE: 38.884435 DATE COLLECTED:
SURFACE ELEVATION (FT.): 530.0 LOGGED (FT.): 1407.0 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	BOND	CARTHAGE	LIMESTONE	5.0	715.0
-548.0	CARBONDALE	DANVILLE	COAL	2.5	1078.0
-605.0	CARBONDALE	HERRIN	COAL	-	1135.0
-643.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1173.0
-705.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1235.0
-854.0	CARBONDALE	COLCHESTER	COAL	-	1384.0
-872.0	SPOON	SEELYVILLE	COAL	5.0	1402.0

MAPID: 07923154000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 11 QUARTERS/FOOTAGES: 50' N line, 1944' E line
 QUADRANGLE: NEWTON LONGITUDE: -88.176033 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.890667 DATE COLLECTED: 11 / 2 / 1979
 SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 1174.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS., RESIST. AND DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
540.0			UNCONSOLIDATED	58.0	0.0	
482.0	MATTOON		GRAY SHALE	71.0	58.0	
411.0	MATTOON		LIMESTONE AND SANDSTONE	3.0	129.0	
408.0	MATTOON		GRAY SHALE	15.0	132.0	
393.0	MATTOON	SHUMWAY	LIMESTONE	0.5	147.0	
392.5	MATTOON	TEUTOPOLIS	DARK SHALE & BLACK SHALE	4.5	147.5	
388.0	MATTOON		GRAY SHALE	19.0	152.0	
369.0	MATTOON		LIMESTONE AND SANDSTONE	3.0	171.0	
366.0	MATTOON		SANDSTONE	8.0	174.0	
358.0	MATTOON		GRAY SHALE	38.0	182.0	
320.0	MATTOON		DARK SHALE & BLACK SHALE	5.0	220.0	
315.0	MATTOON		GRAY SHALE	11.5	225.0	
303.5	MATTOON		LIMESTONE	1.5	236.5	
302.0	MATTOON		GRAY SHALE	2.0	238.0	
300.0	MATTOON		SANDSTONE	12.0	240.0	
288.0	MATTOON		LIMESTONE	2.0	252.0	
286.0	MATTOON		SANDSTONE	17.5	254.0	
268.5	MATTOON		LIMESTONE	1.5	271.5	
267.0	MATTOON		SANDSTONE	57.0	273.0	
210.0	MATTOON		GRAY SHALE	39.0	330.0	
171.0	MATTOON		SANDSTONE/LIMESTONE	11.0	369.0	
160.0	MATTOON		SANDSTONE	53.0	380.0	
107.0	MATTOON		LIMESTONE	3.0	433.0	
104.0	MATTOON		DARK SHALE & BLACK SHALE	3.0	436.0	
101.0	MATTOON		LIMESTONE	2.0	439.0	
99.0	MATTOON		GRAY SHALE	25.0	441.0	
74.0	MATTOON		SANDSTONE/LIMESTONE	14.0	466.0	
60.0	MATTOON		SHALE & SANDSTONE	2.0	480.0	
58.0	MATTOON		GRAY SHALE	14.0	482.0	
44.0	CARBONDALE		BLACK SHALE	2.0	496.0	"SMUT" - BAD COAL?
42.0	CARBONDALE		GRAY SHALE	7.0	498.0	
35.0	CARBONDALE		COAL	1.0	505.0	
34.0	MATTOON		GRAY SHALE	34.5	506.0	
-0.5	BOND	MILLERSVILLE	LIMESTONE	1.3	540.5	
-1.8	BOND		SANDSTONE	2.2	541.8	

-4.0	BOND		GRAY SHALE	11.0	544.0	
-15.0	BOND		COAL	1.0	555.0	
-16.0	BOND		GRAY SHALE	20.5	556.0	
-36.5	BOND		SANDSTONE	20.5	576.5	
-57.0	BOND		SHALE	35.0	597.0	
-92.0	BOND		DARK SHALE & CLAYSTONE	4.0	632.0	
-96.0	BOND		GRAY SHALE	11.8	636.0	
-107.8	BOND		LIMESTONE	0.6	647.8	
-108.4	BOND		SANDSTONE	1.6	648.4	
-110.0	BOND		GRAY SHALE	21.0	650.0	
-131.0	BOND		COAL	1.0	671.0	
-132.0	BOND		GRAY SHALE	43.5	672.0	
-175.5	BOND	CARTHAGE	LIMESTONE	5.7	715.5	
-181.2	MODESTO	NEW HAVEN	DARK SHALE	1.3	721.2	
-182.5	MODESTO	NEW HAVEN	BLACK SHALE	0.5	722.5	
-183.0	MODESTO		GRAY SHALE	74.0	723.0	
-257.0	MODESTO	CHAPEL	BLACK SHALE & CLAY	2.0	797.0	
-259.0	MODESTO		GRAY SHALE	16.7	799.0	
-275.7	MODESTO		LIMESTONE	3.3	815.7	
-279.0	MODESTO		GRAY SHALE	109.0	819.0	
-388.0	MODESTO		SANDSTONE	10.0	928.0	
-398.0	MODESTO		GRAY SHALE	20.0	938.0	
-418.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	958.0	
-422.0	MODESTO		GRAY SHALE	99.5	962.0	
-521.5	CARBONDALE	DANVILLE	COAL	3.0	1061.5	
-524.5	CARBONDALE		GRAY SHALE	7.5	1064.5	
-532.0	CARBONDALE	BANKSTON FORK	LIMESTONE	2.0	1072.0	
-534.0	CARBONDALE		GRAY SHALE	27.0	1074.0	
-561.0	CARBONDALE	CONANT	LIMESTONE	2.6	1101.0	
-563.6	CARBONDALE	JAMESTOWN	COAL	2.4	1103.6	
-566.0	CARBONDALE	JAMESTOWN	DARK SHALE	3.0	1106.0	SPLIT OFF RESIST. LOG
-569.0	CARBONDALE	JAMESTOWN	COAL	1.0	1109.0	
-570.0	CARBONDALE		GRAY SHALE	2.0	1110.0	
-572.0	CARBONDALE	BRERETON	LIMESTONE	4.5	1112.0	
-576.5	CARBONDALE		GRAY SHALE	1.5	1116.5	
-578.0	CARBONDALE	ANNA	BLACK SHALE	1.8	1118.0	
-579.8	CARBONDALE	HERRIN	COAL	5.7	1119.8	AND "SMUT"
-585.5	CARBONDALE		GRAY SHALE	18.0	1125.5	
-603.5	CARBONDALE	BRIAR HILL	COAL	2.2	1143.5	
-605.7	CARBONDALE		GRAY SHALE	5.3	1145.7	
-611.0	CARBONDALE	ST. DAVID	LIMESTONE	4.0	1151.0	
-615.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	1155.0	OFF GAMMA LOG
-616.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1156.0	OFF GAMMA LOG
-619.0	CARBONDALE		GRAY SHALE	15.0	1159.0	

MAPID: 07901440000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 12 QUARTERS/FOOTAGES: NW SW SE
QUADRANGLE: NEWTON LONGITUDE: -88.158558 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.879182 DATE COLLECTED:
SURFACE ELEVATION (FT.): 526.0 LOGGED (FT.): 1359.0 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	BOND	CARTHAGE	LIMESTONE	5.0	699.0
-370.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	896.0
-514.0	CARBONDALE	DANVILLE	COAL	2.0	1040.0
-564.0	CARBONDALE	HERRIN	COAL	-	1090.0
-599.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1125.0
-669.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1195.0
-799.0	CARBONDALE	COLCHESTER	COAL	-	1325.0
-827.0	SPOON	SEELYVILLE	COAL	6.0	1353.0

MAPID: 07901443000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 12 QUARTERS/FOOTAGES: SW SW NE
QUADRANGLE: NEWTON LONGITUDE: -88.158648 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.884689 DATE COLLECTED:
SURFACE ELEVATION (FT.): 526.0 LOGGED (FT.): 1348.5 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
-170.0	BOND	CARTHAGE	LIMESTONE	4.0	696.0
-377.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	903.0
-502.0	CARBONDALE	DANVILLE	COAL	2.0	1028.0
-554.0	CARBONDALE	HERRIN	COAL	-	1080.0
-585.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1111.0
-654.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1180.0
-797.0	CARBONDALE	COLCHESTER	COAL	-	1323.0
-816.0	SPOON	SEELYVILLE	COAL	6.5	1342.0

MAPID: 07924169000C **VERSION:** 1 **PROJECT:** AVAIL
COUNTY: JASPER **TWP/RNG:** 5N 9E **SECTION:** 12 **QUARTERS/FOOTAGES:** 990' N line, 990' W line of SE
QUADRANGLE: NEWTON **LONGITUDE:** -88.156222 **GEOLOGIST:** CHENOWITH
CONFIDENTIAL: N **LATITUDE:** 38.881105 **DATE COLLECTED:** 10 / 20 / 1984
SURFACE ELEVATION (FT.): 526.0 **LOGGED (FT.):** 3372.0 **LOG TYPE:** Induction Log
SOURCE: ELMORE OIL CORPORATION **WELL TYPE:** Oil and Gas Test
COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-591.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1117.0
-820.0	SPOON	SEELYVILLE	COAL	4.0	1346.0

MAPID: 07901097000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 5N 9E **SECTION:** 13 **QUARTERS/FOOTAGES:** NW SW SW
QUADRANGLE: WAKEFIELD **LONGITUDE:** -88.167085 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 38.86433 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 515.0 **LOGGED (FT.):** 1376.0 **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
-545.0	CARBONDALE	DANVILLE	COAL	2.0	1060.0
-601.0	CARBONDALE	HERRIN	COAL	-	1116.0
-640.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1155.0
-708.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1223.0
-837.0	CARBONDALE	COLCHESTER	COAL	-	1352.0
-855.0	SPOON	SEELYVILLE	COAL	6.0	1370.0

MAPID: 07901457000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 5N 9E **SECTION:** 13 **QUARTERS/FOOTAGES:** SW NW NE
QUADRANGLE: WAKEFIELD **LONGITUDE:** -88.158447 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 38.873656 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 520.0 **LOGGED (FT.):** 1355.0 **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	BOND	CARTHAGE	LIMESTONE	5.0	704.0
-374.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	894.0
-536.0	CARBONDALE	DANVILLE	COAL	-	1056.0
-589.0	CARBONDALE	HERRIN	COAL	-	1109.0
-627.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1147.0
-695.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1215.0
-835.0	CARBONDALE	COLCHESTER	COAL	-	1355.0

MAPID: 07901459000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 13 QUARTERS/FOOTAGES: 660' N line, 330' W line of SW NE
QUADRANGLE: WAKEFIELD LONGITUDE: -88.158326 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.870913 DATE COLLECTED:
SURFACE ELEVATION (FT.): 521.0 LOGGED (FT.): 1368.5 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
-393.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	914.0
-538.0	CARBONDALE	DANVILLE	COAL	2.0	1059.0
-594.0	CARBONDALE	HERRIN	COAL	5.0	1115.0
-632.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1153.0
-696.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1217.0
-832.0	CARBONDALE	COLCHESTER	COAL	-	1353.0
-843.0	SPOON	SEELYVILLE	COAL	4.5	1364.0

MAPID: 07900023000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 15 QUARTERS/FOOTAGES: 330' S line, 1060' W line of SE
QUADRANGLE: WAKEFIELD LONGITUDE: -88.192867 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.862447 DATE COLLECTED:
SURFACE ELEVATION (FT.): 517.0 LOGGED (FT.): 1415.0 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
-188.0	BOND	CARTHAGE	LIMESTONE	7.0	705.0
-570.0	CARBONDALE	DANVILLE	COAL	2.0	1087.0
-623.0	CARBONDALE	HERRIN	COAL	-	1140.0
-665.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1182.0
-731.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1248.0
-871.0	CARBONDALE	COLCHESTER	COAL	-	1388.0
-893.0	SPOON	SEELYVILLE	COAL	5.0	1410.0

MAPID: 07900420000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 5N 9E

SECTION: 15

QUARTERS/FOOTAGES: SW NW SW

QUADRANGLE: WAKEFIELD

LONGITUDE: -88.205075

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.866328

DATE COLLECTED:

SURFACE ELEVATION (FT.): 528.0

LOGGED (FT.): 1477.5

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	BOND	CARTHAGE	LIMESTONE	6.0	756.0
-598.0	CARBONDALE	DANVILLE	COAL	2.0	1126.0
-653.0	CARBONDALE	HERRIN	COAL	-	1181.0
-693.0	CARBONDALE	SPRINGFIELD	COAL	-	1221.0
-764.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1292.0
-919.0	CARBONDALE	COLCHESTER	COAL	-	1447.0
-944.0	SPOON	SEELYVILLE	COAL	5.5	1472.0

MAPID: 07900279000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 5N 9E

SECTION: 16

QUARTERS/FOOTAGES: SE NE SE

QUADRANGLE: WAKEFIELD

LONGITUDE: -88.207463

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.86634

DATE COLLECTED:

SURFACE ELEVATION (FT.):

LOGGED (FT.): 1470.0

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
-	BOND	CARTHAGE	LIMESTONE	6.0	766.0
-	MODESTO	TRIVOLI	SANDSTONE	158.0	866.0
-	CARBONDALE	DANVILLE	COAL	3.5	1125.0
-	CARBONDALE	HERRIN	COAL	5.5	1181.0
-	CARBONDALE	SPRINGFIELD	COAL	4.0	1220.0
-	CARBONDALE	HOUCHIN CREEK	COAL	-	1290.0
-	CARBONDALE	COLCHESTER	COAL	-	1441.0
-	SPOON	SEELYVILLE	COAL	7.0	1463.0

MAPID: 07900421000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 16 QUARTERS/FOOTAGES: SW SW NE
QUADRANGLE: WAKEFIELD LONGITUDE: -88.214505 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.870038 DATE COLLECTED:
SURFACE ELEVATION (FT.): 516.0 LOGGED (FT.): 1459.0 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	BOND	CARTHAGE	LIMESTONE	6.0	758.0
-598.0	CARBONDALE	DANVILLE	COAL	2.0	1114.0
-651.0	CARBONDALE	HERRIN	COAL	5.5	1167.0
-691.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1207.0
-764.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1280.0
-916.0	CARBONDALE	COLCHESTER	COAL	-	1432.0
-938.0	SPOON	SEELYVILLE	COAL	5.0	1454.0

MAPID: 07901098000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 16 QUARTERS/FOOTAGES: 660' S line, 339' W line of SE SE
QUADRANGLE: WAKEFIELD LONGITUDE: -88.209848 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.863501 DATE COLLECTED:
SURFACE ELEVATION (FT.): 526.0 LOGGED (FT.): 1456.0 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	BOND	CARTHAGE	LIMESTONE	5.0	770.0
-377.0	MODESTO	TRIVOLI	SANDSTONE	108.0	903.0
-591.0	CARBONDALE	DANVILLE	COAL	2.5	1117.0
-644.0	CARBONDALE	HERRIN	COAL	5.5	1170.0
-684.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1210.0
-754.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1280.0
-907.0	CARBONDALE	COLCHESTER	COAL	-	1433.0
-924.0	SPOON	SEELYVILLE	COAL	6.0	1450.0

MAPID: 07901464000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 16 QUARTERS/FOOTAGES: 330' S line, 660' E line of NE
QUADRANGLE: WAKEFIELD LONGITUDE: -88.20855 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.870038 DATE COLLECTED:
SURFACE ELEVATION (FT.): 535.0 LOGGED (FT.): 1464.5 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
-237.0	BOND	CARTHAGE	LIMESTONE	5.0	772.0
-345.0	MODESTO	TRIVOLI	SANDSTONE	117.0	880.0
-585.0	CARBONDALE	DANVILLE	COAL	2.5	1120.0
-639.0	CARBONDALE	HERRIN	COAL	5.5	1174.0
-680.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1215.0
-750.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1285.0
-901.0	CARBONDALE	COLCHESTER	COAL	-	1436.0
-923.0	SPOON	SEELYVILLE	COAL	6.5	1458.0

MAPID: 07900422000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 17 QUARTERS/FOOTAGES: SE NW SW
QUADRANGLE: WAKEFIELD LONGITUDE: -88.240592 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.866367 DATE COLLECTED:
SURFACE ELEVATION (FT.): 508.0 LOGGED (FT.): 1495.5 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
-298.0	BOND	CARTHAGE	LIMESTONE	6.0	806.0
-644.0	CARBONDALE	DANVILLE	COAL	3.0	1152.0
-690.0	CARBONDALE	HERRIN	COAL	5.5	1198.0
-730.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1238.0
-802.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1310.0
-960.0	CARBONDALE	COLCHESTER	COAL	-	1468.0
-982.0	SPOON	SEELYVILLE	COAL	5.5	1490.0

MAPID: 07900536000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 19 QUARTERS/FOOTAGES: SE SW SE
QUADRANGLE: WAKEFIELD LONGITUDE: -88.250164 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.848229 DATE COLLECTED:
SURFACE ELEVATION (FT.): 494.0 LOGGED (FT.): 1442.0 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	BOND	CARTHAGE	LIMESTONE	6.0	745.0
-607.0	CARBONDALE	DANVILLE	COAL	2.0	1101.0
-652.0	CARBONDALE	HERRIN	COAL	5.0	1146.0
-696.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1190.0
-761.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1255.0
-921.0	CARBONDALE	COLCHESTER	COAL	-	1415.0
-943.0	SPOON	SEELYVILLE	COAL	5.0	1437.0

MAPID: 07900218000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 20 QUARTERS/FOOTAGES: 380' S line, 330' E line of NE SW
QUADRANGLE: WAKEFIELD LONGITUDE: -88.236061 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.851867 DATE COLLECTED:
SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 1412.0 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
-255.0	BOND	CARTHAGE	LIMESTONE	6.0	734.0
-443.0	MODESTO	WEST FRANKLIN	LIMESTONE	22.0	922.0
-600.0	CARBONDALE	DANVILLE	COAL	3.0	1079.0
-649.0	CARBONDALE	HERRIN	COAL	4.0	1128.0
-699.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1178.0
-759.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1238.0
-905.0	CARBONDALE	COLCHESTER	COAL	-	1384.0
-927.0	SPOON	SEELYVILLE	COAL	6.0	1406.0

MAPID: 07900218000C **VERSION:** 2 **PROJECT:** CONTROL
COUNTY: JASPER **TWP/RNG:** 5N 9E **SECTION:** 20 **QUARTERS/FOOTAGES:** 380' S line, 330' E line of NE SW
QUADRANGLE: WAKEFIELD **LONGITUDE:** -88.236061 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.851867 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 3214.0 **LOG TYPE:** Survey Sample Study
SOURCE: KINGWOOD OIL CO. **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: 07901099000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 5N 9E **SECTION:** 21 **QUARTERS/FOOTAGES:** SW SE NE
QUADRANGLE: WAKEFIELD **LONGITUDE:** -88.210068 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.855312 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 517.0 **LOGGED (FT.):** 1424.0 **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
-233.0	BOND	CARTHAGE	LIMESTONE	6.0	750.0
-577.0	CARBONDALE	DANVILLE	COAL	2.0	1094.0
-631.0	CARBONDALE	HERRIN	COAL	3.0	1148.0
-669.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1186.0
-743.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1260.0
-881.0	CARBONDALE	COLCHESTER	COAL	-	1398.0
-903.0	SPOON	SEELYVILLE	COAL	4.0	1420.0

MAPID: 07900708000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 5N 9E **SECTION:** 22 **QUARTERS/FOOTAGES:** NE NE SW
QUADRANGLE: WAKEFIELD **LONGITUDE:** -88.197932 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.853362 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 505.0 **LOGGED (FT.):** 1393.0 **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
-195.0	BOND	CARTHAGE	LIMESTONE	5.0	700.0
-559.0	CARBONDALE	DANVILLE	COAL	2.5	1064.0
-612.0	CARBONDALE	HERRIN	COAL	4.5	1117.0
-655.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1160.0
-725.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1230.0
-863.0	CARBONDALE	COLCHESTER	COAL	-	1368.0
-883.0	SPOON	SEELYVILLE	COAL	5.0	1388.0

MAPID: 07900423000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 23 QUARTERS/FOOTAGES: NE NE NW
QUADRANGLE: WAKEFIELD LONGITUDE: -88.178653 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.860583 DATE COLLECTED:
SURFACE ELEVATION (FT.): 513.0 LOGGED (FT.): 1377.0 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	BOND	CARTHAGE	LIMESTONE	5.0	694.0
-546.0	CARBONDALE	DANVILLE	COAL	-	1059.0
-599.0	CARBONDALE	HERRIN	COAL	-	1112.0
-639.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1152.0
-707.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1220.0
-836.0	CARBONDALE	COLCHESTER	COAL	-	1349.0
-860.0	SPOON	SEELYVILLE	COAL	4.0	1373.0

MAPID: 07900952000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 9E SECTION: 24 QUARTERS/FOOTAGES: SW SW NE
QUADRANGLE: WAKEFIELD LONGITUDE: -88.158217 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.855158 DATE COLLECTED:
SURFACE ELEVATION (FT.): 506.0 LOGGED (FT.): 1351.0 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
-400.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	906.0
-545.0	CARBONDALE	DANVILLE	COAL	3.0	1051.0
-607.0	CARBONDALE	HERRIN	COAL	-	1113.0
-649.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1155.0
-714.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1220.0
-845.0	CARBONDALE	COLCHESTER	COAL	-	1351.0

MAPID: 07900831000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 1 QUARTERS/FOOTAGES: NE SW NW
QUADRANGLE: STE. MARIE LONGITUDE: -88.053137 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.903786 DATE COLLECTED:
SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 1259.0 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
-124.0	BOND	CARTHAGE	LIMESTONE	4.0	603.0
-294.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	773.0
-432.0	CARBONDALE	DANVILLE	COAL	-	911.0
-501.0	CARBONDALE	HERRIN	COAL	3.0	980.0
-554.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1033.0
-621.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1100.0
-763.0	CARBONDALE	COLCHESTER	COAL	-	1242.0
-777.0	SPOON	SEELYVILLE	COAL	3.0	1256.0

MAPID: 07900818000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 2 QUARTERS/FOOTAGES: 660' N line, 330' E line of SE NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.057843 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.90277 DATE COLLECTED:
SURFACE ELEVATION (FT.): 506.0 LOGGED (FT.): 1283.0 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	BOND	CARTHAGE	LIMESTONE	6.0	628.0
-296.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	802.0
-441.0	CARBONDALE	DANVILLE	COAL	2.0	947.0
-506.0	CARBONDALE	HERRIN	COAL	-	1012.0
-549.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1055.0
-618.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1124.0
-749.0	CARBONDALE	COLCHESTER	COAL	-	1255.0
-774.0	SPOON	SEELYVILLE	COAL	3.0	1280.0

MAPID: 07901171000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 2 QUARTERS/FOOTAGES: SW NW SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.064943 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.89799 DATE COLLECTED:
SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 1253.0 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
-123.0	BOND	CARTHAGE	LIMESTONE	4.0	602.0
-306.0	MODESTO	WEST FRANKLIN	LIMESTONE	25.0	785.0
-441.0	CARBONDALE	DANVILLE	COAL	-	920.0
-505.0	CARBONDALE	HERRIN	COAL	4.0	984.0
-544.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1023.0
-614.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1093.0
-752.0	CARBONDALE	COLCHESTER	COAL	-	1231.0
-771.0	SPOON	SEELYVILLE	COAL	3.0	1250.0

MAPID: 07901467000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 2 QUARTERS/FOOTAGES: NE NE NW
QUADRANGLE: STE. MARIE LONGITUDE: -88.06719 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.907113 DATE COLLECTED:
SURFACE ELEVATION (FT.): 487.0 LOGGED (FT.): 1306.0 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
-136.0	BOND	CARTHAGE	LIMESTONE	5.0	623.0
-315.0	MODESTO	WEST FRANKLIN	LIMESTONE	22.0	802.0
-457.0	CARBONDALE	DANVILLE	COAL	-	944.0
-563.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1050.0
-638.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1125.0
-777.0	CARBONDALE	COLCHESTER	COAL	-	1264.0
-816.0	SPOON	SEELYVILLE	COAL	3.0	1303.0

MAPID: 07900703000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 3 QUARTERS/FOOTAGES: NW NW SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.093327 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.898983 DATE COLLECTED:
SURFACE ELEVATION (FT.): 498.0 LOGGED (FT.): 1313.0 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	6.0	647.0
-463.0	CARBONDALE	DANVILLE	COAL	-	961.0
-537.0	CARBONDALE	HERRIN	COAL	-	1035.0
-569.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1067.0
-641.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1139.0
-781.0	CARBONDALE	COLCHESTER	COAL	-	1279.0
-809.0	SPOON	SEELYVILLE	COAL	6.0	1307.0

MAPID: 07900772000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 3 QUARTERS/FOOTAGES: NW NW NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.083742 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.906755 DATE COLLECTED:
SURFACE ELEVATION (FT.): 496.0 LOGGED (FT.): 1275.0 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	BOND	CARTHAGE	LIMESTONE	5.0	647.0
-326.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	822.0
-469.0	CARBONDALE	DANVILLE	COAL	-	965.0
-531.0	CARBONDALE	HERRIN	COAL	4.5	1027.0
-569.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1065.0
-639.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1135.0
-779.0	CARBONDALE	COLCHESTER	COAL	-	1275.0

MAPID: 07900620000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 4 QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: STE. MARIE LONGITUDE: -88.100491 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.900699 DATE COLLECTED:

SURFACE ELEVATION (FT.): 499.0 LOGGED (FT.): 1303.0 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
-131.0	BOND	CARTHAGE	LIMESTONE	5.0	630.0
-333.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	832.0
-450.0	CARBONDALE	DANVILLE	COAL	-	949.0
-517.0	CARBONDALE	HERRIN	COAL	-	1016.0
-552.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1051.0
-621.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1120.0
-760.0	CARBONDALE	COLCHESTER	COAL	-	1259.0
-801.0	SPOON	SEELYVILLE	COAL	3.0	1300.0

MAPID: 07900011000C VERSION: 1 PROJECT: CONTROL

COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 5 QUARTERS/FOOTAGES: 2003' S line, 198' W line of SW

QUADRANGLE: NEWTON LONGITUDE: -88.131663 GEOLOGIST: HINES

CONFIDENTIAL: N LATITUDE: 38.896975 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 2827.0 LOG TYPE: Survey Sample Study

SOURCE: 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: 07900641000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 5 QUARTERS/FOOTAGES: NE SE NW
QUADRANGLE: STE. MARIE LONGITUDE: -88.124198 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.902042 DATE COLLECTED:
SURFACE ELEVATION (FT.): 484.0 LOGGED (FT.): 1233.0 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	BOND	CARTHAGE	LIMESTONE	5.0	579.0
-276.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	760.0
-414.0	CARBONDALE	DANVILLE	COAL	-	898.0
-482.0	CARBONDALE	HERRIN	COAL	-	966.0
-517.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1001.0
-581.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1065.0
-709.0	CARBONDALE	COLCHESTER	COAL	-	1193.0
-743.0	SPOON	SEELYVILLE	COAL	6.0	1227.0

MAPID: 07901469000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 5 QUARTERS/FOOTAGES: SE NE SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.124174 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.896362 DATE COLLECTED:
SURFACE ELEVATION (FT.): 501.0 LOGGED (FT.): 1236.0 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	BOND	CARTHAGE	LIMESTONE	6.0	593.0
-272.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	773.0
-409.0	CARBONDALE	DANVILLE	COAL	-	910.0
-474.0	CARBONDALE	HERRIN	COAL	5.0	975.0
-507.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1008.0
-573.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1074.0
-705.0	CARBONDALE	COLCHESTER	COAL	-	1206.0
-730.0	SPOON	SEELYVILLE	COAL	5.0	1231.0

MAPID: 07900646000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 6 QUARTERS/FOOTAGES: NW SW SW
QUADRANGLE: NEWTON LONGITUDE: -88.149561 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.89388 DATE COLLECTED:
SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 1357.0 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	
-140.0	BOND	CARTHAGE	LIMESTONE	5.0	680.0	
-319.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	859.0	
-480.0	CARBONDALE	DANVILLE	COAL	-	1020.0	
-538.0	CARBONDALE	HERRIN	COAL	-	1078.0	
-570.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1110.0	
-639.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1179.0	
-790.0	CARBONDALE	COLCHESTER	COAL	-	1330.0	
-811.0	SPOON	SEELYVILLE	COAL	6.0	1351.0	

MAPID: 07901021000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 6 QUARTERS/FOOTAGES: NW NE SE
QUADRANGLE: NEWTON LONGITUDE: -88.135819 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.89801 DATE COLLECTED:
SURFACE ELEVATION (FT.): 517.0 LOGGED (FT.): 1276.0 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	
-105.0	BOND	CARTHAGE	LIMESTONE	5.0	622.0	
-429.0	CARBONDALE	DANVILLE	COAL	-	946.0	
-494.0	CARBONDALE	HERRIN	COAL	-	1011.0	
-523.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1040.0	
-590.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1107.0	
-733.0	CARBONDALE	COLCHESTER	COAL	-	1250.0	
-753.0	SPOON	SEELYVILLE	COAL	6.0	1270.0	

MAPID: 07901485000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 7 QUARTERS/FOOTAGES: 660' N line, 330' W line of SE
QUADRANGLE: NEWTON LONGITUDE: -88.140349 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.882129 DATE COLLECTED:
SURFACE ELEVATION (FT.): 508.0 LOGGED (FT.): 1305.0 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	BOND	CARTHAGE	LIMESTONE	5.0	642.0
-309.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	817.0
-468.0	CARBONDALE	DANVILLE	COAL	3.0	976.0
-525.0	CARBONDALE	HERRIN	COAL	3.0	1033.0
-556.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1064.0
-622.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1130.0
-769.0	CARBONDALE	COLCHESTER	COAL	-	1277.0
-791.0	SPOON	SEELYVILLE	COAL	6.0	1299.0

MAPID: 07901486000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 7 QUARTERS/FOOTAGES: 660' S line, 330' W line of SE
QUADRANGLE: NEWTON LONGITUDE: -88.140359 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.878501 DATE COLLECTED:
SURFACE ELEVATION (FT.): 506.0 LOGGED (FT.): 1297.0 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	BOND	CARTHAGE	LIMESTONE	6.0	636.0
-305.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	811.0
-466.0	CARBONDALE	DANVILLE	COAL	2.5	972.0
-519.0	CARBONDALE	HERRIN	COAL	-	1025.0
-552.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1058.0
-621.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1127.0
-768.0	CARBONDALE	COLCHESTER	COAL	-	1274.0
-787.0	SPOON	SEELYVILLE	COAL	4.0	1293.0

MAPID: 07900879000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 8 QUARTERS/FOOTAGES: SE NW SW
QUADRANGLE: NEWTON LONGITUDE: -88.128772 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.881463 DATE COLLECTED:
SURFACE ELEVATION (FT.): 504.0 LOGGED (FT.): 1278.5 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
-110.0	BOND	CARTHAGE	LIMESTONE	6.0	614.0
-287.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	791.0
-449.0	CARBONDALE	DANVILLE	COAL	-	953.0
-509.0	CARBONDALE	HERRIN	COAL	-	1013.0
-539.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1043.0
-607.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1111.0
-753.0	CARBONDALE	COLCHESTER	COAL	-	1257.0
-771.0	SPOON	SEELYVILLE	COAL	3.5	1275.0

MAPID: 07901487000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 8 QUARTERS/FOOTAGES: NW NE NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.117112 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.890886 DATE COLLECTED:
SURFACE ELEVATION (FT.): 490.0 LOGGED (FT.): 1268.0 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
-118.0	BOND	CARTHAGE	LIMESTONE	7.0	608.0
-301.0	MODESTO	WEST FRANKLIN	LIMESTONE	26.0	791.0
-444.0	CARBONDALE	DANVILLE	COAL	-	934.0
-545.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1035.0
-610.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1100.0
-759.0	CARBONDALE	COLCHESTER	COAL	-	1249.0
-770.0	SPOON	SEELYVILLE	COAL	8.0	1260.0

MAPID: 07900610000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 9 QUARTERS/FOOTAGES: NE NW NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.100507 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.89127 DATE COLLECTED:
SURFACE ELEVATION (FT.): 498.0 LOGGED (FT.): 1307.0 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
-136.0	BOND	CARTHAGE	LIMESTONE	6.0	634.0
-336.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	834.0
-462.0	CARBONDALE	DANVILLE	COAL	-	960.0
-536.0	CARBONDALE	HERRIN	COAL	-	1034.0
-567.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1065.0
-634.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1132.0
-772.0	CARBONDALE	COLCHESTER	COAL	-	1270.0
-802.0	SPOON	SEELYVILLE	COAL	7.0	1300.0

MAPID: 07900699000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 9 QUARTERS/FOOTAGES: SW SW NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.102762 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.885839 DATE COLLECTED:
SURFACE ELEVATION (FT.): 490.0 LOGGED (FT.): 1257.0 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
-115.0	BOND	CARTHAGE	LIMESTONE	6.0	605.0
-293.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	783.0
-440.0	CARBONDALE	DANVILLE	COAL	-	930.0
-506.0	CARBONDALE	HERRIN	COAL	-	996.0
-539.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1029.0
-601.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1091.0
-743.0	CARBONDALE	COLCHESTER	COAL	-	1233.0
-762.0	SPOON	SEELYVILLE	COAL	5.0	1252.0

MAPID: 07900375000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 10 QUARTERS/FOOTAGES: NW SW SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.093215 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.880787 DATE COLLECTED:
SURFACE ELEVATION (FT.): 488.0 LOGGED (FT.): 1303.0 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	BOND	CARTHAGE	LIMESTONE	5.0	640.0
-339.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	827.0
-477.0	CARBONDALE	DANVILLE	COAL	-	965.0
-547.0	CARBONDALE	HERRIN	COAL	4.0	1035.0
-577.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1065.0
-650.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1138.0
-789.0	CARBONDALE	COLCHESTER	COAL	-	1277.0
-810.0	SPOON	SEELYVILLE	COAL	5.0	1298.0

MAPID: 07900509000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 10 QUARTERS/FOOTAGES: SE NE SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.076574 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.883058 DATE COLLECTED:
SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 1328.0 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	BOND	CARTHAGE	LIMESTONE	6.0	666.0
-390.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	870.0
-492.0	CARBONDALE	DANVILLE	COAL	-	972.0
-564.0	CARBONDALE	HERRIN	COAL	6.0	1044.0
-600.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1080.0
-676.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1156.0
-824.0	CARBONDALE	COLCHESTER	COAL	-	1304.0
-844.0	SPOON	SEELYVILLE	COAL	4.0	1324.0

MAPID: 07900384000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 11 QUARTERS/FOOTAGES: 330' S line, 380' W line of SE SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.069293 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.879553 DATE COLLECTED:
SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 1300.0 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	BOND	CARTHAGE	LIMESTONE	5.0	635.0
-335.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	815.0
-483.0	CARBONDALE	DANVILLE	COAL	-	963.0
-554.0	CARBONDALE	HERRIN	COAL	4.0	1034.0
-586.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1066.0
-662.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1142.0
-797.0	CARBONDALE	COLCHESTER	COAL	-	1277.0
-816.0	SPOON	SEELYVILLE	COAL	4.0	1296.0

MAPID: 07901490000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 11 QUARTERS/FOOTAGES: NE NW SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.062517 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.885193 DATE COLLECTED:
SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 1307.0 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
-166.0	BOND	CARTHAGE	LIMESTONE	6.0	646.0
-380.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	860.0
-481.0	CARBONDALE	DANVILLE	COAL	-	961.0
-550.0	CARBONDALE	HERRIN	COAL	-	1030.0
-586.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1066.0
-659.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1139.0
-800.0	CARBONDALE	COLCHESTER	COAL	-	1280.0
-823.0	SPOON	SEELYVILLE	COAL	4.0	1303.0

MAPID: 07900424000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 12 QUARTERS/FOOTAGES: SE NW SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.043805 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.883826 DATE COLLECTED:
SURFACE ELEVATION (FT.): 468.0 LOGGED (FT.): 1294.0 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	
-362.0	MODESTO	WEST FRANKLIN	LIMESTONE	24.0	830.0	
-495.0	CARBONDALE	DANVILLE	COAL	-	963.0	
-562.0	CARBONDALE	HERRIN	COAL	-	1030.0	
-600.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1068.0	
-666.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1134.0	
-805.0	CARBONDALE	COLCHESTER	COAL	-	1273.0	
-823.0	SPOON	SEELYVILLE	COAL	3.0	1291.0	

MAPID: 07900965000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 12 QUARTERS/FOOTAGES: NE SE NW
QUADRANGLE: STE. MARIE LONGITUDE: -88.048509 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.88923 DATE COLLECTED:
SURFACE ELEVATION (FT.): 472.0 LOGGED (FT.): 1292.0 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	
-161.0	BOND	CARTHAGE	LIMESTONE	3.0	633.0	
-335.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	807.0	
-480.0	CARBONDALE	DANVILLE	COAL	-	952.0	
-548.0	CARBONDALE	HERRIN	COAL	5.0	1020.0	
-591.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1063.0	
-658.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1130.0	
-793.0	CARBONDALE	COLCHESTER	COAL	-	1265.0	
-817.0	SPOON	SEELYVILLE	COAL	3.0	1289.0	

MAPID: 07900325000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 13 QUARTERS/FOOTAGES: NW SW SW
QUADRANGLE: DUNDAS LONGITUDE: -88.055563 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.866705 DATE COLLECTED:
SURFACE ELEVATION (FT.): 473.0 LOGGED (FT.): 1306.0 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	BOND	CARTHAGE	LIMESTONE	6.0	644.0
-354.0	MODESTO	WEST FRANKLIN	LIMESTONE	19.0	827.0
-506.0	CARBONDALE	DANVILLE	COAL	-	979.0
-577.0	CARBONDALE	HERRIN	COAL	4.0	1050.0
-613.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1086.0
-697.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1170.0
-821.0	CARBONDALE	COLCHESTER	COAL	-	1294.0
-827.0	SPOON	SEELYVILLE	COAL	6.0	1300.0

MAPID: 07900932000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 13 QUARTERS/FOOTAGES: NW SW NE
QUADRANGLE: DUNDAS LONGITUDE: -88.046201 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.874449 DATE COLLECTED:
SURFACE ELEVATION (FT.): 472.0 LOGGED (FT.): 1280.0 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
-344.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	816.0
-483.0	CARBONDALE	DANVILLE	COAL	-	955.0
-555.0	CARBONDALE	HERRIN	COAL	-	1027.0
-590.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1062.0
-663.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1135.0
-792.0	CARBONDALE	COLCHESTER	COAL	-	1264.0
-806.0	SPOON	SEELYVILLE	COAL	2.0	1278.0

MAPID: 07900510000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 14 QUARTERS/FOOTAGES: NE SW SW
QUADRANGLE: DUNDAS LONGITUDE: -88.072177 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.866493 DATE COLLECTED:
SURFACE ELEVATION (FT.): 482.0 LOGGED (FT.): 1333.0 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	BOND	CARTHAGE	LIMESTONE	7.0	676.0
-388.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	870.0
-498.0	CARBONDALE	DANVILLE	COAL	-	980.0
-583.0	CARBONDALE	HERRIN	COAL	-	1065.0
-616.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1098.0
-704.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1186.0
-831.0	CARBONDALE	COLCHESTER	COAL	-	1313.0
-845.0	SPOON	SEELYVILLE	COAL	6.0	1327.0

MAPID: 07900512000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 14 QUARTERS/FOOTAGES: SW NW NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.064828 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.875917 DATE COLLECTED:
SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 1308.0 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
-158.0	BOND	CARTHAGE	LIMESTONE	5.0	633.0
-339.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	814.0
-489.0	CARBONDALE	DANVILLE	COAL	-	964.0
-563.0	CARBONDALE	HERRIN	COAL	3.0	1038.0
-594.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1069.0
-672.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1147.0
-807.0	CARBONDALE	COLCHESTER	COAL	-	1282.0
-828.0	SPOON	SEELYVILLE	COAL	5.0	1303.0

MAPID: 07901493000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 14 QUARTERS/FOOTAGES: NW NW SE
QUADRANGLE: DUNDAS LONGITUDE: -88.064955 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.870314 DATE COLLECTED:
SURFACE ELEVATION (FT.): 478.0 LOGGED (FT.): 1311.0 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	BOND	CARTHAGE	LIMESTONE	5.0	648.0
-351.0	MODESTO	WEST FRANKLIN	LIMESTONE	21.0	829.0
-496.0	CARBONDALE	DANVILLE	COAL	-	974.0
-569.0	CARBONDALE	HERRIN	COAL	-	1047.0
-604.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1082.0
-688.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1166.0
-814.0	CARBONDALE	COLCHESTER	COAL	-	1292.0
-828.0	SPOON	SEELYVILLE	COAL	5.0	1306.0

MAPID: 07900540000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 16 QUARTERS/FOOTAGES: 330' N line, 660' E line of SE SE
QUADRANGLE: DUNDAS LONGITUDE: -88.09683 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.866043 DATE COLLECTED:
SURFACE ELEVATION (FT.): 502.0 LOGGED (FT.): 1332.0 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
-334.0	MODESTO	WEST FRANKLIN	LIMESTONE	22.0	836.0
-489.0	CARBONDALE	DANVILLE	COAL	-	991.0
-558.0	CARBONDALE	HERRIN	COAL	-	1060.0
-593.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1095.0
-665.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1167.0
-807.0	CARBONDALE	COLCHESTER	COAL	-	1309.0
-823.0	SPOON	SEELYVILLE	COAL	7.0	1325.0

MAPID: 07900711000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 16 QUARTERS/FOOTAGES: NE NE NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.095551 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.877126 DATE COLLECTED:
SURFACE ELEVATION (FT.): 492.0 LOGGED (FT.): 1294.0 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	BOND	CARTHAGE	LIMESTONE	6.0	634.0
-313.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	805.0
-466.0	CARBONDALE	DANVILLE	COAL	-	958.0
-538.0	CARBONDALE	HERRIN	COAL	-	1030.0
-568.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1060.0
-628.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1120.0
-777.0	CARBONDALE	COLCHESTER	COAL	-	1269.0
-798.0	SPOON	SEELYVILLE	COAL	4.0	1290.0

MAPID: 07901103000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 16 QUARTERS/FOOTAGES: 660' N line, 660' W line
QUADRANGLE: STE. MARIE LONGITUDE: -88.110797 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.875639 DATE COLLECTED:
SURFACE ELEVATION (FT.): 464.0 LOGGED (FT.): 1221.0 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	BOND	CARTHAGE	LIMESTONE	5.0	567.0
-277.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	741.0
-428.0	CARBONDALE	DANVILLE	COAL	-	892.0
-491.0	CARBONDALE	HERRIN	COAL	-	955.0
-523.0	CARBONDALE	SPRINGFIELD	COAL	3.0	987.0
-556.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1020.0
-734.0	CARBONDALE	COLCHESTER	COAL	-	1198.0
-753.0	SPOON	SEELYVILLE	COAL	4.0	1217.0

MAPID: 07900637000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 17 QUARTERS/FOOTAGES: 660' S line, 660' E line of NW
QUADRANGLE: DUNDAS LONGITUDE: -88.125055 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.871482 DATE COLLECTED:
SURFACE ELEVATION (FT.): 497.0 LOGGED (FT.): 1219.0 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
-273.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	770.0
-427.0	CARBONDALE	DANVILLE	COAL	-	924.0
-481.0	CARBONDALE	HERRIN	COAL	-	978.0
-512.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1009.0
-577.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1074.0
-722.0	CARBONDALE	COLCHESTER	COAL	-	1219.0

MAPID: 07900890000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 17 QUARTERS/FOOTAGES: 660' S line, 685' W line of SE
QUADRANGLE: DUNDAS LONGITUDE: -88.120293 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.864286 DATE COLLECTED:
SURFACE ELEVATION (FT.): 468.0 LOGGED (FT.): 1228.0 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
-297.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	765.0
-452.0	CARBONDALE	DANVILLE	COAL	-	920.0
-512.0	CARBONDALE	HERRIN	COAL	-	980.0
-533.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1001.0
-612.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1080.0
-760.0	CARBONDALE	COLCHESTER	COAL	-	1228.0

MAPID: 07900104000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 18 QUARTERS/FOOTAGES: 2006' N line, 941' W line of NW
QUADRANGLE: WAKEFIELD LONGITUDE: -88.147279 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.87105 DATE COLLECTED:
SURFACE ELEVATION (FT.): 513.0 LOGGED (FT.): 1298.0 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
-303.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	816.0
-465.0	CARBONDALE	DANVILLE	COAL	-	978.0
-522.0	CARBONDALE	HERRIN	COAL	-	1035.0
-554.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1067.0
-628.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1141.0
-770.0	CARBONDALE	COLCHESTER	COAL	-	1283.0
-781.0	SPOON	SEELYVILLE	COAL	4.0	1294.0

MAPID: 07900624000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 18 QUARTERS/FOOTAGES: 660' N line, 330' W line of NE
QUADRANGLE: WAKEFIELD LONGITUDE: -88.14034 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.874859 DATE COLLECTED:
SURFACE ELEVATION (FT.): 506.0 LOGGED (FT.): 1292.5 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
-301.0	MODESTO	WEST FRANKLIN	LIMESTONE	22.0	807.0
-457.0	CARBONDALE	DANVILLE	COAL	-	963.0
-510.0	CARBONDALE	HERRIN	COAL	-	1016.0
-543.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1049.0
-614.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1120.0
-760.0	CARBONDALE	COLCHESTER	COAL	-	1266.0
-782.0	SPOON	SEELYVILLE	COAL	4.5	1288.0

MAPID: 07900105000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 19 QUARTERS/FOOTAGES: 671' N line, 1674' E line of NE
QUADRANGLE: WAKEFIELD LONGITUDE: -88.138182 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.860118 DATE COLLECTED:
SURFACE ELEVATION (FT.): 492.0 LOGGED (FT.): 1270.0 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
-309.0	MODESTO	WEST FRANKLIN	LIMESTONE	23.0	801.0
-459.0	CARBONDALE	DANVILLE	COAL	-	951.0
-516.0	CARBONDALE	HERRIN	COAL	-	1008.0
-549.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1041.0
-619.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1111.0
-757.0	CARBONDALE	COLCHESTER	COAL	-	1249.0
-774.0	SPOON	SEELYVILLE	COAL	4.0	1266.0

MAPID: 07900859000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 19 QUARTERS/FOOTAGES: SE SW SW
QUADRANGLE: WAKEFIELD LONGITUDE: -88.147148 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.847898 DATE COLLECTED:
SURFACE ELEVATION (FT.): 498.0 LOGGED (FT.): 1303.0 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
-336.0	MODESTO	WEST FRANKLIN	LIMESTONE	25.0	834.0
-492.0	CARBONDALE	DANVILLE	COAL	-	990.0
-552.0	CARBONDALE	HERRIN	COAL	-	1050.0
-593.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1091.0
-652.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0
-778.0	CARBONDALE	COLCHESTER	COAL	2.0	1276.0
-802.0	SPOON	SEELYVILLE	COAL	3.0	1300.0

MAPID: 07901543000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 19 QUARTERS/FOOTAGES: NE NW SW
QUADRANGLE: WAKEFIELD LONGITUDE: -88.147092 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.853455 DATE COLLECTED:
SURFACE ELEVATION (FT.): 508.0 LOGGED (FT.): 1309.0 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
-342.0	MODESTO	WEST FRANKLIN	LIMESTONE	25.0	850.0
-495.0	CARBONDALE	DANVILLE	COAL	3.0	1003.0
-554.0	CARBONDALE	HERRIN	COAL	-	1062.0
-595.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1103.0
-660.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1168.0
-787.0	CARBONDALE	COLCHESTER	COAL	-	1295.0
-798.0	SPOON	SEELYVILLE	COAL	3.0	1306.0

MAPID: 07900106000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 20 QUARTERS/FOOTAGES: 671' S line, 1005' W line of SW
QUADRANGLE: WAKEFIELD LONGITUDE: -88.128766 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.849239 DATE COLLECTED:
SURFACE ELEVATION (FT.): 483.0 LOGGED (FT.): 1105.0 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
-293.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	776.0
-449.0	CARBONDALE	DANVILLE	COAL	2.5	932.0
-515.0	CARBONDALE	HERRIN	COAL	-	998.0
-549.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1032.0
-622.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1105.0

MAPID: 07900108000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 20 QUARTERS/FOOTAGES: 2007' S line, 1656' E line of SE
QUADRANGLE: DUNDAS LONGITUDE: -88.119029 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.853177 DATE COLLECTED:
SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 1234.0 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
-296.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	756.0
-451.0	CARBONDALE	DANVILLE	COAL	2.5	911.0
-515.0	CARBONDALE	HERRIN	COAL	-	975.0
-549.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1009.0
-620.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1080.0
-750.0	CARBONDALE	COLCHESTER	COAL	-	1210.0
-766.0	SPOON	SEELYVILLE	COAL	8.0	1226.0

MAPID: 07901104000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 21 QUARTERS/FOOTAGES: NW SE NE
QUADRANGLE: DUNDAS LONGITUDE: -88.098069 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.858537 DATE COLLECTED:
SURFACE ELEVATION (FT.): 487.0 LOGGED (FT.): 1314.0 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
-328.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	815.0
-488.0	CARBONDALE	DANVILLE	COAL	-	975.0
-559.0	CARBONDALE	HERRIN	COAL	-	1046.0
-595.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1082.0
-669.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1156.0
-806.0	CARBONDALE	COLCHESTER	COAL	-	1293.0
-820.0	SPOON	SEELYVILLE	COAL	7.0	1307.0

MAPID: 07900266000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 22 QUARTERS/FOOTAGES: 677' N line, 660' E line
QUADRANGLE: DUNDAS LONGITUDE: -88.078184 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.861755 DATE COLLECTED:
SURFACE ELEVATION (FT.): 483.0 LOGGED (FT.): 1330.0 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	BOND	CARTHAGE	LIMESTONE	7.0	654.0
-355.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	838.0
-515.0	CARBONDALE	DANVILLE	COAL	-	998.0
-587.0	CARBONDALE	HERRIN	COAL	-	1070.0
-620.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1103.0
-707.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1190.0
-832.0	CARBONDALE	COLCHESTER	COAL	-	1315.0
-840.0	SPOON	SEELYVILLE	COAL	7.0	1323.0

MAPID: 07900542000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 22 QUARTERS/FOOTAGES: NW SW NW
QUADRANGLE: DUNDAS LONGITUDE: -88.093416 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.858679 DATE COLLECTED:
SURFACE ELEVATION (FT.): 486.0 LOGGED (FT.): 1343.0 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
-349.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	835.0
-510.0	CARBONDALE	DANVILLE	COAL	-	996.0
-581.0	CARBONDALE	HERRIN	COAL	-	1067.0
-618.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1104.0
-692.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1178.0
-831.0	CARBONDALE	COLCHESTER	COAL	-	1317.0
-851.0	SPOON	SEELYVILLE	COAL	6.0	1337.0

MAPID: 07900012000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 23 QUARTERS/FOOTAGES: 660' S line, 660' E line of SE
QUADRANGLE: DUNDAS LONGITUDE: -88.059295 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.851074 DATE COLLECTED:
SURFACE ELEVATION (FT.): 482.0 LOGGED (FT.): 1349.0 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
-373.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	855.0
-532.0	CARBONDALE	DANVILLE	COAL	-	1014.0
-606.0	CARBONDALE	HERRIN	COAL	-	1088.0
-645.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1127.0
-731.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1213.0
-850.0	CARBONDALE	COLCHESTER	COAL	-	1332.0
-861.0	SPOON	SEELYVILLE	COAL	6.0	1343.0

MAPID: 07900012000C VERSION: 2 PROJECT: CONTROL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 23 QUARTERS/FOOTAGES: 660' S line, 660' E line of SE
QUADRANGLE: DUNDAS LONGITUDE: -88.059295 GEOLOGIST: HINES
CONFIDENTIAL: N LATITUDE: 38.851074 DATE COLLECTED:
SURFACE ELEVATION (FT.): LOGGED (FT.): 3058.0 LOG TYPE: Survey Sample Study
SOURCE: GULF REFINING CO. 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: 07900111000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 23 QUARTERS/FOOTAGES: SE NE SW
QUADRANGLE: DUNDAS LONGITUDE: -88.06759 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.853695 DATE COLLECTED:
SURFACE ELEVATION (FT.): 481.0 LOGGED (FT.): 1338.0 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
-363.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	844.0
-589.0	CARBONDALE	HERRIN	COAL	-	1070.0
-629.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1110.0
-714.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1195.0
-843.0	CARBONDALE	COLCHESTER	COAL	-	1324.0
-852.0	SPOON	SEELYVILLE	COAL	5.0	1333.0

MAPID: 07900385000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 24 QUARTERS/FOOTAGES: NW NW NW
QUADRANGLE: DUNDAS LONGITUDE: -88.055614 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.862984 DATE COLLECTED:
SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 1308.5 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
-173.0	BOND	CARTHAGE	LIMESTONE	5.0	648.0
-363.0	MODESTO	WEST FRANKLIN	LIMESTONE	22.0	838.0
-507.0	CARBONDALE	DANVILLE	COAL	-	982.0
-579.0	CARBONDALE	HERRIN	COAL	-	1054.0
-619.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1094.0
-700.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1175.0
-819.0	CARBONDALE	COLCHESTER	COAL	-	1294.0
-829.0	SPOON	SEELYVILLE	COAL	4.5	1304.0

MAPID: 07900545000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 10E SECTION: 24 QUARTERS/FOOTAGES: SW SE NW
QUADRANGLE: DUNDAS LONGITUDE: -88.05108 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.857585 DATE COLLECTED:
SURFACE ELEVATION (FT.): 483.0 LOGGED (FT.): 1331.0 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	BOND	CARTHAGE	LIMESTONE	4.0	665.0
-371.0	MODESTO	WEST FRANKLIN	LIMESTONE	19.0	854.0
-519.0	CARBONDALE	DANVILLE	COAL	-	1002.0
-593.0	CARBONDALE	HERRIN	COAL	-	1076.0
-634.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1117.0
-719.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1202.0
-832.0	CARBONDALE	COLCHESTER	COAL	-	1315.0
-844.0	SPOON	SEELYVILLE	COAL	4.0	1327.0

MAPID: 07900984000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 11E SECTION: 6 QUARTERS/FOOTAGES: SE SW NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.028595 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.902313 DATE COLLECTED:
SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 1311.0 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
-328.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	798.0
-479.0	CARBONDALE	DANVILLE	COAL	-	949.0
-540.0	CARBONDALE	HERRIN	COAL	-	1010.0
-599.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1069.0
-668.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1138.0
-803.0	CARBONDALE	COLCHESTER	COAL	-	1273.0
-838.0	SPOON	SEELYVILLE	COAL	3.0	1308.0

MAPID: 07900991000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 11E SECTION: 6 QUARTERS/FOOTAGES: NW NE NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.026109 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.907858 DATE COLLECTED:
SURFACE ELEVATION (FT.): 462.0 LOGGED (FT.): 1298.5 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
-138.0	BOND	CARTHAGE	LIMESTONE	4.0	600.0
-316.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	778.0
-462.0	CARBONDALE	DANVILLE	COAL	-	924.0
-527.0	CARBONDALE	HERRIN	COAL	3.5	989.0
-583.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1045.0
-658.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1120.0
-798.0	CARBONDALE	COLCHESTER	COAL	-	1260.0
-833.0	SPOON	SEELYVILLE	COAL	3.5	1295.0

MAPID: 07900997000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 11E SECTION: 6 QUARTERS/FOOTAGES: 600' S line, 330' W line of NW

QUADRANGLE: STE. MARIE LONGITUDE: -88.03669 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.903053 DATE COLLECTED:

SURFACE ELEVATION (FT.): 466.0 LOGGED (FT.): 1296.0 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	
-322.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	788.0	
-466.0	CARBONDALE	DANVILLE	COAL	-	932.0	
-538.0	CARBONDALE	HERRIN	COAL	-	1004.0	
-591.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1057.0	
-664.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1130.0	
-804.0	CARBONDALE	COLCHESTER	COAL	-	1270.0	
-827.0	SPOON	SEELYVILLE	COAL	3.0	1293.0	

MAPID: 07900908000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 11E SECTION: 7 QUARTERS/FOOTAGES: NE SE SE

QUADRANGLE: STE. MARIE LONGITUDE: -88.024214 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.881908 DATE COLLECTED:

SURFACE ELEVATION (FT.): 476.0 LOGGED (FT.): 1322.5 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	
-365.0	MODESTO	WEST FRANKLIN	LIMESTONE	23.0	841.0	
-493.0	CARBONDALE	DANVILLE	COAL	-	969.0	
-559.0	CARBONDALE	HERRIN	COAL	-	1035.0	
-608.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1084.0	
-683.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1159.0	
-824.0	CARBONDALE	COLCHESTER	COAL	-	1300.0	
-844.0	SPOON	SEELYVILLE	COAL	2.5	1320.0	

MAPID: 07901030000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 5N 11E **SECTION:** 7 **QUARTERS/FOOTAGES:** NE SW SE
QUADRANGLE: STE. MARIE **LONGITUDE:** -88.028875 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.881989 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 469.0 **LOGGED (FT.):** 1344.0 **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	BOND	CARTHAGE	LIMESTONE	6.0	674.0
-400.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	869.0
-511.0	CARBONDALE	DANVILLE	COAL	2.0	980.0
-581.0	CARBONDALE	HERRIN	COAL	-	1050.0
-625.0	CARBONDALE	SPRINGFIELD	COAL	-	1094.0
-706.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1175.0
-854.0	CARBONDALE	COLCHESTER	COAL	-	1323.0
-871.0	SPOON	SEELYVILLE	COAL	4.0	1340.0

MAPID: 07900543000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 5N 11E **SECTION:** 18 **QUARTERS/FOOTAGES:** NW SW SE
QUADRANGLE: DUNDAS **LONGITUDE:** -88.031423 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.867104 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 473.0 **LOGGED (FT.):** 1331.0 **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
-354.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	827.0
-504.0	CARBONDALE	DANVILLE	COAL	2.0	977.0
-578.0	CARBONDALE	HERRIN	COAL	5.0	1051.0
-621.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1094.0
-697.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1170.0
-841.0	CARBONDALE	COLCHESTER	COAL	-	1314.0
-853.0	SPOON	SEELYVILLE	COAL	5.0	1326.0

MAPID: 07901588000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 11E SECTION: 18 QUARTERS/FOOTAGES: 660' S line, 640' E line of NW NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.030014 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.877324 DATE COLLECTED:
SURFACE ELEVATION (FT.): 471.0 LOGGED (FT.): 1332.0 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	
-364.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	835.0	
-509.0	CARBONDALE	DANVILLE	COAL	-	980.0	
-579.0	CARBONDALE	HERRIN	COAL	4.0	1050.0	
-622.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1093.0	
-699.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1170.0	
-842.0	CARBONDALE	COLCHESTER	COAL	-	1313.0	
-857.0	SPOON	SEELYVILLE	COAL	4.0	1328.0	

MAPID: 07900720000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 5N 11E SECTION: 19 QUARTERS/FOOTAGES: SE SE SE
QUADRANGLE: DUNDAS LONGITUDE: -88.02442 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.850592 DATE COLLECTED:
SURFACE ELEVATION (FT.): 492.0 LOGGED (FT.): 1360.0 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	
-360.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	852.0	
-517.0	CARBONDALE	DANVILLE	COAL	-	1009.0	
-588.0	CARBONDALE	HERRIN	COAL	-	1080.0	
-630.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1122.0	
-713.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1205.0	
-848.0	CARBONDALE	COLCHESTER	COAL	-	1340.0	
-861.0	SPOON	SEELYVILLE	COAL	7.0	1353.0	

MAPID: 07901019000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 11E SECTION: 19 QUARTERS/FOOTAGES: NW SW NE
QUADRANGLE: DUNDAS LONGITUDE: -88.031449 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.859693 DATE COLLECTED:
SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 1350.0 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
-211.0	BOND	CARTHAGE	LIMESTONE	5.0	690.0
-359.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	838.0
-515.0	CARBONDALE	DANVILLE	COAL	-	994.0
-589.0	CARBONDALE	HERRIN	COAL	5.0	1068.0
-628.0	CARBONDALE	SPRINGFIELD	COAL	-	1107.0
-716.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1195.0
-851.0	CARBONDALE	COLCHESTER	COAL	-	1330.0
-864.0	SPOON	SEELYVILLE	COAL	7.0	1343.0

MAPID: 07900199000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 14W SECTION: 5 QUARTERS/FOOTAGES: 660' N line, 330' W line of SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.000612 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.899067 DATE COLLECTED:
SURFACE ELEVATION (FT.): 456.0 LOGGED (FT.): 1280.0 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
-322.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	778.0
-464.0	CARBONDALE	DANVILLE	COAL	-	920.0
-522.0	CARBONDALE	HERRIN	COAL	5.0	978.0
-581.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1037.0
-669.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1125.0
-808.0	CARBONDALE	COLCHESTER	COAL	-	1264.0
-820.0	SPOON	SEELYVILLE	COAL	4.0	1276.0

MAPID: 07900430000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 14W SECTION: 5 QUARTERS/FOOTAGES: SE NE SW
QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.993614 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.897985 DATE COLLECTED:
SURFACE ELEVATION (FT.): 459.0 LOGGED (FT.): 1215.0 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
-121.0	BOND	CARTHAGE	LIMESTONE	5.0	580.0
-291.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	750.0
-427.0	CARBONDALE	DANVILLE	COAL	-	886.0
-485.0	CARBONDALE	HERRIN	COAL	5.0	944.0
-629.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1088.0
-756.0	CARBONDALE	COLCHESTER	COAL	-	1215.0

MAPID: 07900013000C VERSION: 1 PROJECT: CONTROL
COUNTY: JASPER TWP/RNG: 5N 14W SECTION: 7 QUARTERS/FOOTAGES: 660' N line, 660' E line of NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.004143 GEOLOGIST: HINES
CONFIDENTIAL: N LATITUDE: 38.891426 DATE COLLECTED:
SURFACE ELEVATION (FT.): LOGGED (FT.): 2866.0 LOG TYPE: Survey Sample Study
SOURCE: LEBOW & PICKENS 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: 07900432000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 14W SECTION: 7 QUARTERS/FOOTAGES: 330' N line, 660' W line of SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.010137 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.885116 DATE COLLECTED:
SURFACE ELEVATION (FT.): 461.0 LOGGED (FT.): 1267.0 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
-156.0	BOND	CARTHAGE	LIMESTONE	4.0	617.0
-333.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	794.0
-473.0	CARBONDALE	DANVILLE	COAL	2.0	934.0
-541.0	CARBONDALE	HERRIN	COAL	4.0	1002.0
-594.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1055.0
-669.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1130.0
-806.0	CARBONDALE	COLCHESTER	COAL	-	1267.0

MAPID: 07901088000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 14W SECTION: 8 QUARTERS/FOOTAGES: NE NE NE
QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.984333 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.892149 DATE COLLECTED:
SURFACE ELEVATION (FT.): 453.0 LOGGED (FT.): 1217.0 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	
-292.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	745.0	
-426.0	CARBONDALE	DANVILLE	COAL	-	879.0	
-492.0	CARBONDALE	HERRIN	COAL	-	945.0	
-550.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1003.0	
-627.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1080.0	
-764.0	CARBONDALE	COLCHESTER	COAL	-	1217.0	

MAPID: 07901597000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 14W SECTION: 8 QUARTERS/FOOTAGES: 660' S line, 660' W line of NW NW
QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.99948 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.891415 DATE COLLECTED:
SURFACE ELEVATION (FT.): 460.0 LOGGED (FT.): 1262.0 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	
-140.0	BOND	CARTHAGE	LIMESTONE	3.0	600.0	
-315.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	775.0	
-455.0	CARBONDALE	DANVILLE	COAL	-	915.0	
-520.0	CARBONDALE	HERRIN	COAL	-	980.0	
-574.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1034.0	
-662.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1122.0	
-802.0	CARBONDALE	COLCHESTER	COAL	-	1262.0	

MAPID: 07900352000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 5N 14W

SECTION: 9

QUARTERS/FOOTAGES: SW NE SW

QUADRANGLE: OBLONG SOUTH

LONGITUDE: -87.977368

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.88314

DATE COLLECTED:

SURFACE ELEVATION (FT.): 478.0

LOGGED (FT.): 1323.0

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
-332.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	810.0
-467.0	CARBONDALE	DANVILLE	COAL	2.0	945.0
-534.0	CARBONDALE	HERRIN	COAL	-	1012.0
-592.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1070.0
-662.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1140.0
-811.0	CARBONDALE	COLCHESTER	COAL	-	1289.0
-842.0	SPOON	SEELYVILLE	COAL	3.0	1320.0

MAPID: 07922557000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 5N 14W

SECTION: 10

QUARTERS/FOOTAGES: 660' S line, 330' W line of SW NW

QUADRANGLE: OBLONG SOUTH

LONGITUDE: -87.963306

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.887663

DATE COLLECTED:

SURFACE ELEVATION (FT.): 469.0

LOGGED (FT.): 1304.0

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
-148.0	BOND	CARTHAGE	LIMESTONE	3.0	617.0
-316.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	785.0
-466.0	CARBONDALE	DANVILLE	COAL	-	935.0
-528.0	CARBONDALE	HERRIN	COAL	-	997.0
-581.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1050.0
-668.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1137.0
-808.0	CARBONDALE	COLCHESTER	COAL	-	1277.0
-832.0	SPOON	SEELYVILLE	COAL	3.0	1301.0

MAPID: 07900546000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 5N 14W **SECTION:** 17 **QUARTERS/FOOTAGES:** NW NE NE
QUADRANGLE: OBLONG SOUTH **LONGITUDE:** -87.986766 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.877779 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 455.0 **LOGGED (FT.):** 1296.0 **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
-340.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	795.0
-487.0	CARBONDALE	DANVILLE	COAL	-	942.0
-555.0	CARBONDALE	HERRIN	COAL	3.0	1010.0
-613.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1068.0
-695.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0
-841.0	CARBONDALE	COLCHESTER	COAL	-	1296.0

MAPID: 07901334000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 5N 14W **SECTION:** 18 **QUARTERS/FOOTAGES:** NW NE SE
QUADRANGLE: DUNDAS **LONGITUDE:** -88.006128 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.870674 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 451.0 **LOGGED (FT.):** 1336.0 **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
-390.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	841.0
-511.0	CARBONDALE	DANVILLE	COAL	-	962.0
-577.0	CARBONDALE	HERRIN	COAL	4.0	1028.0
-622.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1073.0
-706.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1157.0
-853.0	CARBONDALE	COLCHESTER	COAL	-	1304.0
-881.0	SPOON	SEELYVILLE	COAL	4.0	1332.0

MAPID: 07900313000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 14W SECTION: 19 QUARTERS/FOOTAGES: SE NW SE
QUADRANGLE: DUNDAS LONGITUDE: -88.009106 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.854309 DATE COLLECTED:
SURFACE ELEVATION (FT.): 473.0 LOGGED (FT.): 1350.0 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
-174.0	BOND	CARTHAGE	LIMESTONE	5.0	647.0
-374.0	MODESTO	WEST FRANKLIN	LIMESTONE	22.0	847.0
-514.0	CARBONDALE	DANVILLE	COAL	-	987.0
-585.0	CARBONDALE	HERRIN	COAL	-	1058.0
-627.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1100.0
-711.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1184.0
-857.0	CARBONDALE	COLCHESTER	COAL	-	1330.0
-871.0	SPOON	SEELYVILLE	COAL	6.0	1344.0

MAPID: 07900785000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 14W SECTION: 19 QUARTERS/FOOTAGES: 1800' S line, 1400' W line
QUADRANGLE: DUNDAS LONGITUDE: -88.018329 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.854678 DATE COLLECTED:
SURFACE ELEVATION (FT.): 478.0 LOGGED (FT.): 1348.0 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
-363.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	841.0
-591.0	CARBONDALE	HERRIN	COAL	5.0	1069.0
-630.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1108.0
-709.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1187.0
-853.0	CARBONDALE	COLCHESTER	COAL	-	1331.0
-865.0	SPOON	SEELYVILLE	COAL	5.0	1343.0

MAPID: 07900435000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 14W SECTION: 21 QUARTERS/FOOTAGES: NE NE SW
QUADRANGLE: LANDES LONGITUDE: -87.975338 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.855925 DATE COLLECTED:
SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 1327.0 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	
-340.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	810.0	
-490.0	CARBONDALE	DANVILLE	COAL	2.0	960.0	
-558.0	CARBONDALE	HERRIN	COAL	-	1028.0	
-615.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1085.0	
-682.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1152.0	
-838.0	CARBONDALE	COLCHESTER	COAL	-	1308.0	
-854.0	SPOON	SEELYVILLE	COAL	3.0	1324.0	

MAPID: 07900335000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 5N 14W SECTION: 22 QUARTERS/FOOTAGES: NW SW NW
QUADRANGLE: LANDES LONGITUDE: -87.963508 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.85958 DATE COLLECTED:
SURFACE ELEVATION (FT.): 450.0 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	
-337.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	787.0	
-478.0	CARBONDALE	DANVILLE	COAL	-	928.0	
-546.0	CARBONDALE	HERRIN	COAL	-	996.0	
-598.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1048.0	
-684.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1134.0	
-841.0	CARBONDALE	COLCHESTER	COAL	-	1291.0	

MAPID: 07922846000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 8E SECTION: 1 QUARTERS/FOOTAGES: 1490' S line, 68' E line of SE

QUADRANGLE: LATONA LONGITUDE: -88.260435 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.983754 DATE COLLECTED: 11 / 20 / 1978

SURFACE ELEVATION (FT.): 558.9 LOGGED (FT.): 1315.0 LOG TYPE: Multiple log types

SOURCE: COASTAL STATES ILJC-78-15 WELL TYPE: Coal Test

COMMENT: GAMMA, DENS, NEUTRON, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
558.9			UNCONSOLIDATED	60.0	0.0	
498.9	MATTOON		GRAY SHALE	60.0	60.0	DRILLERS LOG VERY GENERALIZED
438.9	MATTOON	FALMOUTH	DARK SHALE & CLAYSTONE	2.0	120.0	
436.9	MATTOON		GRAY SHALE	27.0	122.0	
409.9	MATTOON	WETWETHER	BLACK SHALE	2.0	149.0	
407.9	MATTOON		LIMESTONE	19.0	151.0	
388.9	MATTOON		GRAY SHALE	10.0	170.0	
378.9	MATTOON	INGRAHAM	BLACK SHALE	6.0	180.0	OFF GAMMA LOG
372.9	MATTOON		GRAY SHALE	34.0	186.0	
338.9	MATTOON		LIMESTONE	10.0	220.0	
328.9	MATTOON		SANDSTONE	10.0	230.0	
318.9	MATTOON		GRAY SHALE	22.0	240.0	
296.9	MATTOON	TEUTOPOLIS	BLACK SHALE	3.0	262.0	OFF GAMMA LOG
293.9	MATTOON		GRAY SHALE	75.0	265.0	
218.9	MATTOON		SANDSTONE	30.0	340.0	
188.9	MATTOON		GRAY SHALE	10.0	370.0	
178.9	MATTOON		SANDSTONE	20.0	380.0	
158.9	MATTOON		GRAY SHALE	5.0	400.0	
153.9	MATTOON		DARK SHALE	25.0	405.0	
128.9	MATTOON		BLACK SHALE	10.0	430.0	
118.9	MATTOON		GRAY SHALE	20.0	440.0	
98.9	MATTOON		SHALE & SILTSTONE	10.0	460.0	
88.9	MATTOON		DARK SHALE	60.0	470.0	
28.9	MATTOON		BLACK SHALE	20.0	530.0	
8.9	MATTOON		GRAY SHALE	30.0	550.0	
-21.1	MATTOON		DARK SHALE	10.0	580.0	
-31.1	MATTOON		GRAY SHALE	30.0	590.0	
-61.1	MATTOON		LIMESTONE W/ COAL	5.0	620.0	
-66.1	MATTOON		GRAY SHALE	43.0	625.0	
-109.1	MATTOON		COAL	2.0	668.0	
-111.1	MATTOON		GRAY SHALE	10.0	670.0	
-121.1	BOND	MILLERSVILLE	LIMESTONE	6.0	680.0	OFF GAMMA LOG
-127.1	BOND		DARK SHALE	2.0	686.0	
-129.1	BOND		GRAY SHALE	22.0	688.0	
-151.1	BOND		LIMESTONE	2.0	710.0	
-153.1	BOND		SILTY SHALE	40.0	712.0	
-193.1	BOND		BLACK SHALE	2.0	752.0	
-195.1	BOND		SILTY SHALE	6.0	754.0	

-201.1	BOND		GRAY SHALE	10.0	760.0	
-211.1	BOND		LIMESTONE	2.0	770.0	
-213.1	BOND		GRAY SHALE	28.0	772.0	
-241.1	BOND		SHALE/COAL	10.0	800.0	
-251.1	BOND		SILTY SHALE	18.0	810.0	
-269.1	BOND		SHALE & SANDSTONE	6.0	828.0	
-275.1	BOND		BLACK SHALE & CLAY	29.0	834.0	
-304.1	BOND	CARTHAGE	LIMESTONE	6.3	863.0	OFF GAMMA LOG
-310.4	MODESTO	NEW HAVEN	BLACK SHALE	2.7	869.3	
-313.1	MODESTO		SHALE	10.5	872.0	
-323.6	MODESTO	CHAPEL	COAL	3.5	882.5	
-327.1	MODESTO		GRAY SHALE	44.0	886.0	
-371.1	MODESTO	TRIVOLI	SANDSTONE	76.0	930.0	"SAND"
-447.1	MODESTO	WEST FRANKLIN	LIMESTONE W/ SHALE	14.0	1006.0	OFF GAMMA LOG
-461.1	MODESTO		UNCLASSIFIED	10.0	1020.0	RIG BREAK DOWN
-471.1	MODESTO		GRAY SHALE	150.5	1030.0	
-621.6	CARBONDALE	DANVILLE	COAL	3.5	1180.5	
-625.1	CARBONDALE		SANDSTONE/SHALE	16.0	1184.0	
-641.1	CARBONDALE		SILTY SHALE	6.0	1200.0	
-647.1	CARBONDALE		GRAY SHALE	1.3	1206.0	CORE #1 1206-1224.15
-648.4	CARBONDALE	CONANT	LIMESTONE	1.6	1207.3	
-650.0	CARBONDALE	JAMESTOWN	COAL	2.9	1208.9	
-652.9	CARBONDALE		DARK SHALE	1.1	1211.8	
-654.0	CARBONDALE	BRERETON	LIMESTONE	5.2	1212.9	
-659.1	CARBONDALE	ANNA	DARK SHALE & BLACK SHALE	1.1	1218.0	
-660.2	CARBONDALE	HERRIN	COAL	5.1	1219.1	
-665.3	CARBONDALE	HERRIN	COAL	0.9	1224.2	CORE #2 1224.15-1243.65
-666.2	CARBONDALE		GRAY SHALE	18.6	1225.1	
-684.8	CARBONDALE		GRAY SHALE	3.3	1243.7	CORE #3 1243.65-1256
-688.1	CARBONDALE	BRIAR HILL	COAL	1.9	1247.0	
-690.0	CARBONDALE		BLACK SHALE	3.5	1248.9	
-693.4	CARBONDALE	ST. DAVID	LIMESTONE	3.7	1252.3	
-697.1	CARBONDALE	ST. DAVID	LIMESTONE	1.9	1256.0	CORE #4 1256-1269
-699.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	1257.9	
-700.1	CARBONDALE	SPRINGFIELD	COAL	4.0	1259.0	
-704.0	CARBONDALE		UNDERCLAY	3.9	1262.9	
-707.9	CARBONDALE		GRAY SHALE	2.2	1266.8	
-710.1	CARBONDALE		GRAY SHALE	11.0	1269.0	
-721.1	CARBONDALE		CALCAREOUS SHALE	35.0	1280.0	

MAPID: 07900128000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 8E SECTION: 2 QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: LATONA LONGITUDE: -88.284645 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.98026 DATE COLLECTED:

SURFACE ELEVATION (FT.): 546.0 LOGGED (FT.): 1489.0 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
-302.0	BOND	CARTHAGE	LIMESTONE	6.0	848.0
-476.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	1022.0
-626.0	CARBONDALE	DANVILLE	COAL	2.5	1172.0
-657.0	CARBONDALE	JAMESTOWN	COAL	-	1203.0
-669.0	CARBONDALE	HERRIN	COAL	5.0	1215.0
-712.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1258.0
-778.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1324.0
-921.0	CARBONDALE	COLCHESTER	COAL	-	1467.0
-937.0	SPOON	SEELYVILLE	COAL	6.0	1483.0

MAPID: 07922761000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 8E SECTION: 2 QUARTERS/FOOTAGES: 1206' N line, 835' E line
 QUADRANGLE: LATONA LONGITUDE: -88.281832 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.992238 DATE COLLECTED: 8 / 0 / 1978
 SURFACE ELEVATION (FT.): 558.6 LOGGED (FT.): 1300.0 LOG TYPE: Multiple log types
 SOURCE: COASTAL STATES ILJC-78-2 WELL TYPE: Coal Test
 COMMENT: DRILLERS LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
558.6			UNCONSOLIDATED	30.0	0.0	
528.6	MATTOON		MUDSTONE	30.0	30.0	
498.6	MATTOON		GRAY SHALE	30.0	60.0	
468.6	MATTOON		SANDSTONE	20.0	90.0	
448.6	MATTOON		GRAY SHALE	15.0	110.0	
433.6	MATTOON		LIMESTONE	5.0	125.0	
428.6	MATTOON		MUDSTONE	15.0	130.0	
413.6	MATTOON		CARBONACEOUS SHALE	5.0	145.0	
408.6	MATTOON		MUDSTONE	10.0	150.0	
398.6	MATTOON		GRAY SHALE	70.0	160.0	
328.6	MATTOON		SILTSTONE	40.0	230.0	
288.6	MATTOON		SANDSTONE	80.0	270.0	
208.6	MATTOON		SANDSTONE/SHALE	150.0	350.0	
58.6	MATTOON		GRAY SHALE	10.0	500.0	
48.6	MATTOON		CARBONACEOUS SHALE	20.0	510.0	
28.6	MATTOON		MUDSTONE	10.0	530.0	
18.6	MATTOON		SANDSTONE/SHALE	20.0	540.0	
-1.4	MATTOON		GRAY SHALE	30.0	560.0	
-31.4	MATTOON		SANDSTONE/SHALE	20.0	590.0	
-51.4	MATTOON		GRAY SHALE	10.0	610.0	
-61.4	MATTOON		SILTSTONE	30.0	620.0	
-91.4	MATTOON		GRAY SHALE	10.0	650.0	
-101.4	BOND		CARBONACEOUS SHALE	20.0	660.0	APPROX. TOP OF BOND
-121.4	BOND		SANDSTONE & MUDSTONE	30.0	680.0	
-151.4	BOND		GRAY SHALE	20.0	710.0	
-171.4	BOND		CARBONACEOUS SHALE	10.0	730.0	
-181.4	BOND		SILTY SHALE	30.0	740.0	
-211.4	BOND		SANDSTONE/SHALE	60.0	770.0	
-271.4	MODESTO		SILTSTONE	20.0	830.0	APPROX. TOP OF MODESTO
-291.4	MODESTO		CARBONACEOUS SHALE	30.0	850.0	
-321.4	MODESTO		SILTSTONE	20.0	880.0	
-341.4	MODESTO		SANDSTONE/SHALE	95.0	900.0	
-436.4	MODESTO		LIMESTONE W/ SHALE	15.0	995.0	
-451.4	MODESTO		SANDSTONE/SHALE	30.0	1010.0	
-481.4	MODESTO		GRAY SHALE	50.0	1040.0	
-531.4	MODESTO		CLAYSTONE & SILTSTONE	10.0	1090.0	
-541.4	MODESTO		SILTY SHALE	63.0	1100.0	
-604.4	MODESTO		GRAY SHALE	1.0	1163.0	CORE # 1163-1179.35
-605.4	MODESTO		CLAYSTONE & SILTSTONE	2.1	1164.0	

-607.5	MODESTO		MUDSTONE	0.1	1166.1	
-607.6	CARBONDALE	DANVILLE	COAL	3.1	1166.2	
-610.7	CARBONDALE		MUDSTONE	7.1	1169.3	
-617.8	CARBONDALE		SANDSTONE	3.0	1176.4	
-620.8	CARBONDALE		SANDSTONE	1.3	1179.4	CORE #2 1179.25-1196.55
-622.0	CARBONDALE		MUDSTONE & SANDSTONE	6.9	1180.6	
-628.9	CARBONDALE		SHALE & SANDSTONE	5.0	1187.5	
-633.9	CARBONDALE		DARK SHALE & BLACK SHALE	1.8	1192.5	
-635.7	CARBONDALE	CONANT	LIMESTONE	2.3	1194.3	
-638.0	CARBONDALE	CONANT	LIMESTONE	0.5	1196.6	CORE #3 1196.55-1215.8
-638.4	CARBONDALE	JAMESTOWN	COAL	2.9	1197.0	
-641.3	CARBONDALE		CARBONACEOUS SHALE	0.4	1199.9	
-641.7	CARBONDALE		CLAYSTONE & SILTSTONE	0.7	1200.3	
-642.4	CARBONDALE		CARBONACEOUS SHALE	0.4	1201.0	
-642.8	CARBONDALE		SILTSTONE	0.4	1201.4	
-643.2	CARBONDALE	BRERETON	SHALY LIMESTONE	4.8	1201.8	
-648.0	CARBONDALE	ANNA	CARBONACEOUS SHALE	3.3	1206.6	
-651.3	CARBONDALE	HERRIN	COAL	5.9	1209.9	
-657.1	CARBONDALE		CARBONACEOUS SHALE	0.1	1215.7	
-657.2	CARBONDALE		CORE LOSS	0.3	1215.8	CORE #4 1215.8-1234.7
-657.5	CARBONDALE		MUDSTONE	2.5	1216.1	
-659.9	CARBONDALE		SILTSTONE	1.1	1218.5	
-661.0	CARBONDALE		MUDSTONE	5.4	1219.6	
-666.4	CARBONDALE		SILTSTONE/SANDSTONE	2.2	1225.0	
-668.6	CARBONDALE		SHALE	4.2	1227.2	
-672.8	CARBONDALE		SANDSTONE	0.1	1231.4	
-672.9	CARBONDALE		MUDSTONE	0.7	1231.5	
-673.6	CARBONDALE		MUDSTONE & SANDSTONE	0.5	1232.2	
-674.1	CARBONDALE		MUDSTONE	2.0	1232.7	
-676.1	CARBONDALE		SHALE	9.2	1234.7	CORE #5 1234.7-1249.3
-685.3	CARBONDALE		CARBONACEOUS SHALE	0.1	1243.9	
-685.4	CARBONDALE	BRIAR HILL	COAL	2.2	1244.0	
-687.6	CARBONDALE		CARBONACEOUS SHALE	3.2	1246.2	
-690.7	CARBONDALE		MUDSTONE	0.2	1249.3	
-690.9	CARBONDALE	TURNER MINE	CARBONACEOUS SHALE	2.8	1249.5	
-693.7	CARBONDALE	SPRINGFIELD	COAL	4.6	1252.3	
-698.3	CARBONDALE		MUDSTONE	0.8	1256.9	
-699.0	CARBONDALE		SILTSTONE	1.4	1257.6	
-700.4	CARBONDALE		SANDSTONE	1.9	1259.0	
-702.3	CARBONDALE		SILTSTONE	1.9	1260.9	
-704.1	CARBONDALE		SANDSTONE	0.7	1262.7	
-704.8	CARBONDALE		MUDSTONE	36.6	1263.4	

MAPID: 07922847000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 8E SECTION: 3 QUARTERS/FOOTAGES: 63' N line, 2295' E line of NE

QUADRANGLE: LATONA LONGITUDE: -88.305643 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.99696 DATE COLLECTED: 11 / 21 / 1978

SURFACE ELEVATION (FT.): 560.0 LOGGED (FT.): 1272.0 LOG TYPE: Multiple log types

SOURCE: COASTAL STATES ILJC-78-12 WELL TYPE: Coal Test

COMMENT: GAMMA, DENS, NEUTRON, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.0			UNCONSOLIDATED	62.0	0.0	
498.0	MATTOON		MUDSTONE	33.0	62.0	DRILLERS LOG VERY GENERALIZED
465.0	MATTOON		BROWN SHALE	5.0	95.0	
460.0	MATTOON		MUDSTONE	20.0	100.0	
440.0	MATTOON	INGRAHAM	DARK SHALE & BLACK SHALE	6.0	120.0	OFF GAMMA LOG
434.0	MATTOON		SILTSTONE	9.0	126.0	
425.0	MATTOON		DARK SHALE & BLACK SHALE	15.0	135.0	
410.0	MATTOON		GRAY SHALE	50.0	150.0	
360.0	MATTOON	TEUTOPOLIS	BLACK SHALE	2.0	200.0	
358.0	MATTOON		LIMESTONE	48.0	202.0	
310.0	MATTOON		SANDSTONE	60.0	250.0	
250.0	MATTOON		MUDSTONE	20.0	310.0	
230.0	MATTOON		SANDSTONE	100.0	330.0	
130.0	MATTOON		SILTY SHALE	10.0	430.0	
120.0	MATTOON		MUDSTONE	10.0	440.0	
110.0	MATTOON		SANDSTONE	10.0	450.0	
100.0	MATTOON		MUDSTONE	10.0	460.0	
90.0	MATTOON		MUDSTONE & SHALE	30.0	470.0	
60.0	MATTOON		MUDSTONE	10.0	500.0	
50.0	MATTOON		SILTY SHALE	45.0	510.0	
5.0	MATTOON		MUDSTONE	30.0	555.0	
-25.0	MATTOON		MUDSTONE & SHALE	25.0	585.0	
-50.0	MATTOON		SILTY SHALE	13.0	610.0	
-63.0	BOND	MILLERSVILLE	LIMESTONE	6.0	623.0	
-69.0	BOND		SILTY SHALE	11.0	629.0	
-80.0	BOND		SILTSTONE	10.0	640.0	
-90.0	BOND		SILTY SHALE	90.0	650.0	
-180.0	BOND		MUDSTONE & SHALE	10.0	740.0	
-190.0	BOND		SILTY SHALE	10.0	750.0	
-200.0	BOND		SILTSTONE	17.0	760.0	
-217.0	BOND	CARTHAGE	LIMESTONE	6.0	777.0	
-223.0	MODESTO		SHALE	27.0	783.0	TOP 2' NEW HAVEN COAL HORIZON
-250.0	MODESTO		SILTSTONE & SHALE	80.0	810.0	AT 850' #8 COAL HORIZON
-330.0	MODESTO		SANDY MUDSTONE	10.0	890.0	
-340.0	MODESTO		SILTY SHALE	10.0	900.0	
-350.0	MODESTO		SANDSTONE	10.0	910.0	
-360.0	MODESTO		SILTSTONE & SHALE	10.0	920.0	

-370.0	MODESTO		SANDSTONE	20.0	930.0	
-390.0	MODESTO		SILTY SHALE	18.0	950.0	
-408.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	968.0	OFF GAMMA LOG
-416.0	MODESTO		SANDSTONE/SHALE	4.0	976.0	
-420.0	MODESTO		MUDSTONE	40.0	980.0	
-460.0	MODESTO		SILTSTONE & SHALE	20.0	1020.0	
-480.0	MODESTO		MUDSTONE	10.0	1040.0	
-490.0	MODESTO		SILTSTONE	10.0	1050.0	
-500.0	MODESTO		SANDSTONE	10.0	1060.0	
-510.0	MODESTO		MUDSTONE	62.0	1070.0	
-572.0	CARBONDALE	DANVILLE	COAL	2.0	1132.0	OFF GAMMA LOG
-574.0	CARBONDALE		MUDSTONE	11.0	1134.0	CORE #1 1137-1154.4
-585.0	CARBONDALE		LIMESTONE & SHALE	0.2	1145.0	
-585.1	CARBONDALE		CALCAREOUS SHALE	7.6	1145.1	
-592.7	CARBONDALE		SILTY SHALE	1.7	1152.7	
-594.4	CARBONDALE		SILTY SHALE	0.5	1154.4	CORE #2 1154.4-1170'
-594.9	CARBONDALE		CLAYSTONE & SILTSTONE	2.1	1154.9	
-597.0	CARBONDALE		SHALE	0.6	1157.0	
-597.6	CARBONDALE		CALCAREOUS SHALE	0.2	1157.6	
-597.8	CARBONDALE	CONANT	LIMESTONE	2.1	1157.8	
-599.9	CARBONDALE		CALCAREOUS SHALE	0.1	1159.9	
-600.1	CARBONDALE	JAMESTOWN	COAL	2.5	1160.1	
-602.6	CARBONDALE		SILTSTONE & SHALE	0.4	1162.6	
-603.0	CARBONDALE		BLACK SHALE	0.6	1163.0	
-603.6	CARBONDALE		SHALY LIMESTONE	2.0	1163.6	
-605.6	CARBONDALE	BRERETON	LIMESTONE	4.4	1165.6	
-610.0	CARBONDALE	BRERETON	LIMESTONE	2.0	1170.0	CORE #3 1170-1189.6
-612.0	CARBONDALE		SILTY SHALE	0.3	1172.0	
-612.3	CARBONDALE		SHALE	0.5	1172.3	
-612.8	CARBONDALE	HERRIN	COAL	5.9	1172.8	
-618.7	CARBONDALE		BLACK SHALE	0.1	1178.7	
-618.8	CARBONDALE		SILTY SHALE	0.6	1178.8	
-619.3	CARBONDALE		MUDSTONE	2.1	1179.3	
-621.4	CARBONDALE		SHALY SILTSTONE	8.2	1181.4	
-629.6	CARBONDALE		SHALY SILTSTONE	0.3	1189.6	CORE #4 1189.6-1205
-629.9	CARBONDALE		MUDSTONE & SHALE	0.2	1189.9	
-630.0	CARBONDALE		SILTSTONE	0.1	1190.0	
-630.1	CARBONDALE		SHALE	2.0	1190.1	
-632.1	CARBONDALE		SHALY SILTSTONE	13.0	1192.1	
-645.0	CARBONDALE		SILTSTONE	0.8	1205.0	CORE #5 1205-1211
-645.8	CARBONDALE		LIMESTONE	0.3	1205.8	
-646.1	CARBONDALE	BRIAR HILL	COAL	2.0	1206.1	
-648.1	CARBONDALE		SHALY SILTSTONE	2.9	1208.1	
-651.0	CARBONDALE		BLACK SHALE	1.1	1211.0	CORE #6 1211-1222 CARBONACEOUS
-652.1	CARBONDALE		CALCAREOUS SHALE	1.0	1212.1	CORE #6 1211-1222 CARBONACEOUS
-653.1	CARBONDALE	SPRINGFIELD	COAL	3.9	1213.1	
-657.1	CARBONDALE		SHALY SILTSTONE	0.6	1217.1	

-657.6	CARBONDALE	SILTSTONE	4.4	1217.6
-662.0	CARBONDALE	SILTY SHALE	8.0	1222.0
-670.0	CARBONDALE	MUDSTONE	42.0	1230.0

MAPID: 07901105000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 8E SECTION: 4 QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: LATONA LONGITUDE: -88.333168 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.982604 DATE COLLECTED:

SURFACE ELEVATION (FT.): 563.0 LOGGED (FT.): 1413.0 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
-249.0	BOND	CARTHAGE	LIMESTONE	6.0	812.0
-395.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	958.0
-550.0	CARBONDALE	DANVILLE	COAL	2.0	1113.0
-590.0	CARBONDALE	HERRIN	COAL	4.5	1153.0
-630.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1193.0
-697.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1260.0
-824.0	CARBONDALE	COLCHESTER	COAL	-	1387.0
-848.0	SPOON	SEELYVILLE	COAL	2.0	1411.0

MAPID: 07900308000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 8E SECTION: 5 QUARTERS/FOOTAGES: SW SE SW

QUADRANGLE: LATONA LONGITUDE: -88.346947 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.983183 DATE COLLECTED:

SURFACE ELEVATION (FT.): 567.0 LOGGED (FT.): 1469.5 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
-271.0	BOND	CARTHAGE	LIMESTONE	6.0	838.0
-414.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	981.0
-580.0	CARBONDALE	DANVILLE	COAL	2.0	1147.0
-622.0	CARBONDALE	HERRIN	COAL	5.0	1189.0
-661.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1228.0
-737.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1304.0
-863.0	CARBONDALE	COLCHESTER	COAL	-	1430.0
-898.0	SPOON	SEELYVILLE	COAL	4.5	1465.0

MAPID: 07900278000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 6N 8E

SECTION: 8

QUARTERS/FOOTAGES: NW NW NW

QUADRANGLE: LATONA

LONGITUDE: -88.351476

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.981353

DATE COLLECTED:

SURFACE ELEVATION (FT.): 564.0

LOGGED (FT.): 1445.5

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	
-252.0	BOND	CARTHAGE	LIMESTONE	6.0	816.0	
-562.0	CARBONDALE	DANVILLE	COAL	2.0	1126.0	
-602.0	CARBONDALE	HERRIN	COAL	4.5	1166.0	
-641.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1205.0	
-720.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1284.0	
-852.0	CARBONDALE	COLCHESTER	COAL	-	1416.0	
-877.0	SPOON	SEELYVILLE	COAL	4.5	1441.0	

MAPID: 07923255000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 8E SECTION: 8 QUARTERS/FOOTAGES: 75' S line, 65' W line
 QUADRANGLE: LATONA LONGITUDE: -88.352367 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.968253 DATE COLLECTED: 6 / 18 / 1980
 SURFACE ELEVATION (FT.): 559.0 LOGGED (FT.): 1482.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG-80-5-8C WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS, RESIST, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
559.0			UNCONSOLIDATED	33.0	0.0
526.0	MATTOON		GRAY SHALE	43.0	33.0
483.0	MATTOON	FALMOUTH	BLACK SHALE	2.0	76.0
481.0	MATTOON		GRAY SHALE	1.0	78.0
480.0	MATTOON		LIMESTONE	7.0	79.0
473.0	MATTOON		GRAY SHALE	17.0	86.0
456.0	MATTOON	WETWETHER	BLACK SHALE	3.0	103.0
453.0	MATTOON		GRAY SHALE	22.0	106.0
431.0	MATTOON		LIMESTONE	3.0	128.0
428.0	MATTOON		SHALE	14.0	131.0
414.0	MATTOON		LIMESTONE	1.5	145.0
412.5	MATTOON	INGRAHAM	BLACK SHALE	7.5	146.5
405.0	MATTOON		GRAY SHALE	8.0	154.0
397.0	MATTOON		LIMESTONE	4.0	162.0
393.0	MATTOON		GRAY SHALE	34.0	166.0
359.0	MATTOON		LIMESTONE	5.0	200.0
354.0	MATTOON		GRAY SHALE	23.0	205.0
331.0	MATTOON		LIMESTONE	8.0	228.0
323.0	MATTOON		GRAY SHALE	30.0	236.0
293.0	MATTOON	TEUTOPOLIS	BLACK SHALE	9.0	266.0
284.0	MATTOON		GRAY SHALE	1.0	275.0
283.0	MATTOON		LIMESTONE	2.0	276.0
281.0	MATTOON		GRAY SHALE	12.0	278.0
269.0	MATTOON		SANDSTONE	92.5	290.0
176.5	MATTOON		LIMESTONE	7.5	382.5
169.0	MATTOON		SANDSTONE	8.0	390.0
161.0	MATTOON		GRAY SHALE	104.0	398.0
57.0	MATTOON		SANDSTONE	4.0	502.0
53.0	MATTOON		GRAY SHALE	6.0	506.0
47.0	MATTOON		LIMESTONE	4.0	512.0
43.0	MATTOON		GRAY SHALE	5.0	516.0
38.0	MATTOON		SANDSTONE	6.0	521.0
32.0	MATTOON		GRAY SHALE	39.0	527.0
-7.0	MATTOON		LIMESTONE	2.0	566.0
-9.0	MATTOON		SANDSTONE	2.0	568.0
-11.0	MATTOON		GRAY SHALE	59.0	570.0
-70.0	BOND	MILLERSVILLE	LIMESTONE	3.5	629.0
-73.5	BOND		BLACK SHALE	3.5	632.5
-77.0	BOND		GRAY SHALE	19.5	636.0

-96.5	BOND		LIMESTONE	1.0	655.5	
-97.5	BOND		SANDSTONE	5.5	656.5	
-103.0	BOND		GRAY SHALE	40.5	662.0	
-143.5	BOND		COAL	1.5	702.5	
-145.0	BOND		GRAY SHALE	54.0	704.0	
-199.0	BOND		SANDSTONE	4.0	758.0	
-203.0	BOND		GRAY SHALE	48.0	762.0	
-251.0	BOND	CARTHAGE	LIMESTONE	6.5	810.0	
-257.5	MODESTO		GRAY SHALE	1.5	816.5	
-259.0	MODESTO	NEW HAVEN	GREEN SHALE	3.5	818.0	
-262.5	MODESTO		GRAY SHALE	35.5	821.5	
-298.0	MODESTO	CHAPEL	BLACK SHALE	3.0	857.0	I THINK THIS IS #8
-301.0	MODESTO		GRAY SHALE	9.0	860.0	
-310.0	MODESTO		LIMESTONE	1.0	869.0	
-311.0	MODESTO		GRAY SHALE	8.0	870.0	
-319.0	MODESTO		SANDSTONE	3.0	878.0	
-322.0	MODESTO		GRAY SHALE	57.0	881.0	
-379.0	MODESTO		SANDSTONE	2.5	938.0	
-381.5	MODESTO		COAL	1.5	940.5	DRILLERS LOG CALLS THIS #8
-383.0	MODESTO		GRAY SHALE	18.0	942.0	
-401.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	960.0	
-415.0	MODESTO		GRAY SHALE	6.0	974.0	
-421.0	MODESTO		SANDSTONE	30.0	980.0	
-451.0	MODESTO		GRAY SHALE	118.0	1010.0	
-569.0	CARBONDALE	DANVILLE	COAL	3.0	1128.0	
-572.0	CARBONDALE		GRAY SHALE	7.0	1131.0	
-579.0	CARBONDALE	BANKSTON FORK	LIMESTONE	2.5	1138.0	
-581.5	CARBONDALE		GRAY SHALE	14.0	1140.5	
-595.5	CARBONDALE	CONANT	LIMESTONE	2.0	1154.5	
-597.5	CARBONDALE	JAMESTOWN	COAL	3.0	1156.5	
-600.5	CARBONDALE		GRAY SHALE	3.0	1159.5	
-603.5	CARBONDALE	BRERETON	LIMESTONE	2.7	1162.5	
-606.2	CARBONDALE	ANNA	BLACK SHALE	0.8	1165.2	
-607.0	CARBONDALE	HERRIN	COAL	5.5	1166.0	CORE #1166-1175
-612.5	CARBONDALE		UNDERCLAY	3.5	1171.5	
-616.0	CARBONDALE		GRAY SHALE	25.0	1175.0	
-641.0	CARBONDALE	BRIAR HILL	COAL	2.0	1200.0	
-643.0	CARBONDALE		GRAY SHALE	6.0	1202.0	
-649.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	1208.0	
-649.5	CARBONDALE	SPRINGFIELD	COAL	4.5	1208.5	
-654.0	CARBONDALE		GRAY SHALE	7.0	1213.0	
-661.0	CARBONDALE		LIMESTONE	1.0	1220.0	
-662.0	CARBONDALE		GRAY SHALE	9.0	1221.0	
-671.0	CARBONDALE		SANDSTONE	52.0	1230.0	
-723.0	CARBONDALE		GRAY SHALE	7.0	1282.0	
-730.0	CARBONDALE	HANOVER	LIMESTONE	3.0	1289.0	
-733.0	CARBONDALE	EXCELLO	BLACK SHALE	1.0	1292.0	
-734.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	1293.0	

-735.0	CARBONDALE		GRAY SHALE	71.0	1294.0	
-806.0	CARBONDALE	SURVANT - UPPER	COAL	2.0	1365.0	
-808.0	CARBONDALE		GRAY SHALE	33.7	1367.0	#2A
-841.7	CARBONDALE	SURVANT - LOWER	COAL	1.0	1400.7	DRILLERS LOG CALLS THIS SURVANT ALSO
-842.7	CARBONDALE		GRAY SHALE	32.3	1401.7	
-875.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	1434.0	
-877.0	CARBONDALE	COLCHESTER	COAL	2.5	1436.0	
-879.5	CARBONDALE		GRAY SHALE	12.5	1438.5	
-892.0	CARBONDALE	SEELYVILLE	COAL	1.5	1451.0	
-893.5	CARBONDALE	SEELYVILLE	GRAY SHALE	2.5	1452.5	
-896.0	CARBONDALE	SEELYVILLE	COAL	5.8	1455.0	
-901.8	CARBONDALE		SHALE & SANDSTONE	21.2	1460.8	

MAPID: 07922848000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 8E SECTION: 10 QUARTERS/FOOTAGES: 1221' S line, 65' W line of SE

QUADRANGLE: LATONA LONGITUDE: -88.306381 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.969135 DATE COLLECTED: 11 / 22 / 1978

SURFACE ELEVATION (FT.): 551.0 LOGGED (FT.): 1300.0 LOG TYPE: Multiple log types

SOURCE: COASTAL STATES ILJC-78-13 WELL TYPE: Coal Test

COMMENT: GAMMA, NEUTRON, DENSITY & CORE DESC.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
551.0			UNCONSOLIDATED	120.0	0.0	
431.0	MATTOON	INGRAHAM	LIMESTONE	10.0	120.0	DRILLERS LOG VERY GENERALIZED
421.0	MATTOON		CLAYSTONE	14.0	130.0	
407.0	MATTOON		BLACK SHALE	6.0	144.0	OFF GAMMA LOG
401.0	MATTOON		GRAY SHALE	30.0	150.0	
371.0	MATTOON		SHALE/COAL	10.0	180.0	
361.0	MATTOON	TEUTOPOLIS	LIMESTONE W/ SHALE	30.0	190.0	
331.0	MATTOON		GRAY SHALE	18.0	220.0	
313.0	MATTOON		BLACK SHALE	2.0	238.0	
311.0	MATTOON		SHALE & SANDSTONE	60.0	240.0	
251.0	MATTOON		SANDSTONE	20.0	300.0	
231.0	MATTOON		GRAY SHALE	30.0	320.0	
201.0	MATTOON		SANDSTONE/CLAYSTONE	10.0	350.0	
191.0	MATTOON		SANDSTONE	80.0	360.0	
111.0	MATTOON		SANDSTONE/SHALE	20.0	440.0	
91.0	MATTOON		SHALE & SANDSTONE	70.0	460.0	
21.0	MATTOON	MILLERSVILLE	SHALE	30.0	530.0	SOME SS AT TOP OF INTERVAL
-9.0	MATTOON		DARK SHALE & BLACK SHALE	40.0	560.0	
-49.0	MATTOON		SHALE & SANDSTONE	60.0	600.0	
-109.0	BOND		LIMESTONE	4.0	660.0	
-113.0	BOND		CALCAREOUS SHALE	56.0	664.0	
-169.0	BOND		DARK SHALE & BLACK SHALE	70.0	720.0	
-239.0	BOND		DARK SHALE & SANDSTONE	30.0	790.0	
-269.0	BOND		SANDSTONE	20.0	820.0	
-289.0	BOND		GRAY SHALE	12.0	840.0	
-301.0	BOND	CARTHAGE	LIMESTONE	4.0	852.0	
-305.0	MODESTO	NEW HAVEN	BLACK SHALE	5.0	856.0	
-310.0	MODESTO		SANDSTONE/LIMESTONE	9.0	861.0	
-319.0	MODESTO		DARK SHALE & LIMESTONE	8.0	870.0	
-327.0	MODESTO	CHAPEL	COAL	2.0	878.0	
-329.0	MODESTO		DARK SHALE & LIMESTONE	10.0	880.0	
-339.0	MODESTO		DARK SHALE & BLACK SHALE	20.0	890.0	
-359.0	MODESTO		CALCAREOUS SHALE	10.0	910.0	
-369.0	MODESTO		GRAY SHALE	28.0	920.0	
-397.0	MODESTO		LIMESTONE	4.0	948.0	

-401.0	MODESTO		SANDSTONE	8.0	952.0	
-409.0	MODESTO		SHALE & SANDSTONE	20.0	960.0	
-429.0	MODESTO		SANDSTONE	8.0	980.0	
-437.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	988.0	
-443.0	MODESTO	WEST FRANKLIN	SHALE	2.0	994.0	
-445.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	996.0	
-453.0	MODESTO		LIMESTONE AND SANDSTONE	16.0	1004.0	
-469.0	MODESTO		SANDSTONE	60.0	1020.0	
-529.0	MODESTO		GRAY SHALE	80.0	1080.0	
-609.0	CARBONDALE	DANVILLE	COAL	3.0	1160.0	
-612.0	CARBONDALE		SHALE	12.0	1163.0	
-624.0	CARBONDALE		GRAY SHALE	12.2	1175.0	CORE #1 1175-1190.4
-636.2	CARBONDALE	CONANT	LIMESTONE	2.6	1187.2	
-638.8	CARBONDALE	JAMESTOWN	COAL	0.6	1189.8	
-639.4	CARBONDALE	JAMESTOWN	COAL	1.5	1190.4	CORE #2 1190.4-1209'
-640.9	CARBONDALE		GRAY SHALE	4.7	1191.9	
-645.6	CARBONDALE	BRERETON	LIMESTONE	3.5	1196.6	
-649.1	CARBONDALE	HERRIN	COAL	6.3	1200.1	
-655.4	CARBONDALE		UNDERCLAY	2.6	1206.4	
-658.0	CARBONDALE		UNDERCLAY	1.4	1209.0	CORE #3 1209-1223.2
-659.4	CARBONDALE		GRAY SHALE	3.9	1210.4	
-663.3	CARBONDALE		LIMESTONE	0.9	1214.3	
-664.2	CARBONDALE		GRAY SHALE	8.0	1215.2	
-672.2	CARBONDALE		DARK SHALE	9.8	1223.2	CORE #4 1223.2-1240.62
-682.0	CARBONDALE	BRIAR HILL	COAL	2.2	1233.0	
-684.2	CARBONDALE		BLACK SHALE	4.4	1235.2	
-688.6	CARBONDALE	ST. DAVID	LIMESTONE	1.0	1239.6	
-689.6	CARBONDALE	ST. DAVID	LIMESTONE	0.9	1240.6	CORE #5 1240.62-1251'
-690.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	1241.5	
-691.5	CARBONDALE	SPRINGFIELD	COAL	4.8	1242.5	
-696.3	CARBONDALE		GRAY SHALE	3.4	1247.3	
-699.7	CARBONDALE		CORE LOSS	0.3	1250.7	CORE LOSS
-700.0	CARBONDALE		DARK SHALE & SANDSTONE	49.0	1251.0	

MAPID: 07922849000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 8E SECTION: 11 QUARTERS/FOOTAGES: 2578' S line, 115' E line of SE

QUADRANGLE: LATONA LONGITUDE: -88.279178 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.971752 DATE COLLECTED: 11 / 20 / 1978

SURFACE ELEVATION (FT.): 552.0 LOGGED (FT.): 1305.0 LOG TYPE: Multiple log types

SOURCE: COASTAL STATES ILJC-78-16 WELL TYPE: Coal Test

COMMENT: GAMMA, DENS, NEUTRON, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
552.0			UNCONSOLIDATED	80.0	0.0	
472.0	MATTOON		GRAY SHALE	20.0	80.0	DRILLERS LOG VERY GENERALIZED
452.0	MATTOON		SILTSTONE	23.0	100.0	
429.0	MATTOON	FALMOUTH	BLACK SHALE	2.0	123.0	OFF GAMMA LOG
427.0	MATTOON		CLAYSTONE & SILTSTONE	14.0	125.0	
413.0	MATTOON	TROWBRIDGE	COAL	1.0	139.0	OFF GAMMA LOG
412.0	MATTOON		GRAY SHALE	18.0	140.0	OFF GAMMA LOG
394.0	MATTOON	INGRAHAM	BLACK SHALE	6.0	158.0	OFF GAMMA LOG
388.0	MATTOON		GRAY SHALE	80.0	164.0	
308.0	MATTOON	TEUTOPOLIS	BLACK SHALE	2.0	244.0	OFF GAMMA LOG
306.0	MATTOON		SHALE	54.0	246.0	
252.0	MATTOON		SILTSTONE	10.0	300.0	
242.0	MATTOON		LIMESTONE	10.0	310.0	
232.0	MATTOON		SILTSTONE	30.0	320.0	
202.0	MATTOON		SHALE	30.0	350.0	
172.0	MATTOON		DARK SHALE & BLACK SHALE	30.0	380.0	
142.0	MATTOON		SANDSTONE	10.0	410.0	
132.0	MATTOON		SHALE	30.0	420.0	
102.0	MATTOON		SHALE & SANDSTONE	10.0	450.0	
92.0	MATTOON		SILTSTONE	48.0	460.0	
44.0	MATTOON		BLACK SHALE	4.0	508.0	OFF GAMMA LOG
40.0	MATTOON		DARK SHALE & BLACK SHALE	18.0	512.0	
22.0	MATTOON		SILTSTONE	30.0	530.0	
-8.0	MATTOON		DARK SILTSTONE	10.0	560.0	
-18.0	MATTOON		SILTSTONE	10.0	570.0	
-28.0	MATTOON		SANDSTONE	30.0	580.0	
-58.0	MATTOON		DARK SILTSTONE	40.0	610.0	
-98.0	MATTOON		GRAY SHALE	8.0	650.0	
-106.0	BOND	MILLERSVILLE	LIMESTONE	5.0	658.0	
-111.0	BOND		GRAY SHALE	7.0	663.0	
-118.0	BOND		SILTSTONE	50.0	670.0	
-168.0	BOND		GRAY SHALE	10.0	720.0	
-178.0	BOND		BLACK SHALE & CLAY	10.0	730.0	
-188.0	BOND		CLAYSTONE & SILTSTONE	10.0	740.0	
-198.0	BOND		GRAY SHALE	30.0	750.0	COAL AT ABOUT 768-770
-228.0	BOND		SHALE & SANDSTONE	20.0	780.0	
-248.0	BOND		GRAY SHALE	20.0	800.0	

-268.0	BOND	CARTHAGE	LIMESTONE	8.0	820.0	
-276.0	MODESTO	NEW HAVEN	BLACK SHALE	3.0	828.0	
-279.0	MODESTO		SHALE	9.0	831.0	
-288.0	MODESTO		CALCAREOUS SHALE	20.0	840.0	
-308.0	MODESTO		GRAY SHALE	13.0	860.0	
-321.0	MODESTO	CHAPEL	BLACK SHALE	3.0	873.0	
-324.0	MODESTO		GRAY SHALE	4.0	876.0	
-328.0	MODESTO		SHALE	30.0	880.0	
-358.0	MODESTO		SHALE & SANDSTONE	20.0	910.0	
-378.0	MODESTO		SHALE	30.0	930.0	
-408.0	MODESTO		LIMESTONE	10.0	960.0	
-418.0	MODESTO		SANDSTONE	15.0	970.0	
-433.0	MODESTO		SANDSTONE/LIMESTONE	5.0	985.0	
-438.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	990.0	WITH 2' SH PARTING
-454.0	MODESTO		LIMESTONE AND SANDSTONE	4.0	1006.0	
-458.0	MODESTO		LIMESTONE W/ SHALE	20.0	1010.0	
-478.0	MODESTO		SANDSTONE	10.0	1030.0	
-488.0	MODESTO		SILTSTONE	10.0	1040.0	
-498.0	MODESTO		GRAY SHALE	10.0	1050.0	
-508.0	MODESTO		SILTSTONE	50.0	1060.0	
-558.0	MODESTO		SILTY SHALE	10.0	1110.0	
-568.0	MODESTO		GRAY SHALE	47.0	1120.0	
-615.0	CARBONDALE	DANVILLE	COAL	4.0	1167.0	
-619.0	CARBONDALE		SHALE	1.0	1171.0	
-620.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	1172.0	OFF GAMMA LOG
-624.0	CARBONDALE		SHALE & SANDSTONE	4.0	1176.0	
-628.0	CARBONDALE		SILTSTONE	9.0	1180.0	
-637.0	CARBONDALE		GRAY SHALE	2.5	1189.0	CORE #1 1189-1205'
-639.5	CARBONDALE	CONANT	LIMESTONE	1.3	1191.5	
-640.8	CARBONDALE	JAMESTOWN	COAL	2.9	1192.8	
-643.6	CARBONDALE		BLACK SHALE & CLAY	3.0	1195.6	
-646.7	CARBONDALE	BRERETON	LIMESTONE	6.1	1198.7	
-652.8	CARBONDALE	ANNA	BLACK SHALE	0.2	1204.8	
-653.0	CARBONDALE	ANNA	BLACK SHALE	0.6	1205.0	CORE #2 1205-1225
-653.6	CARBONDALE	HERRIN	COAL	5.8	1205.6	
-659.4	CARBONDALE		CLAYSTONE & SILTSTONE	3.8	1211.4	
-663.2	CARBONDALE		GRAY SHALE	8.6	1215.2	
-671.8	CARBONDALE		CORE LOSS	2.2	1223.8	CORE LOSS
-674.0	CARBONDALE		GRAY SHALE	9.7	1226.0	CORE #3 1225-1239
-683.7	CARBONDALE	BRIAR HILL	COAL	2.0	1235.7	
-685.7	CARBONDALE		BLACK SHALE	1.3	1237.7	
-687.0	CARBONDALE		DARK SHALE & BLACK SHALE	3.1	1239.0	CORE #4 1239-1254'
-690.1	CARBONDALE	ST. DAVID	LIMESTONE	1.1	1242.1	
-691.1	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	1243.1	
-691.8	CARBONDALE	SPRINGFIELD	COAL	4.2	1243.8	
-696.0	CARBONDALE		CLAYSTONE & SILTSTONE	3.2	1248.0	

-699.2	CARBONDALE	SILTSTONE	2.9	1251.2
-702.0	CARBONDALE	SHALE	51.0	1254.0

MAPID: 07900224000C		VERSION: 1		PROJECT: CGT-ECILL	
COUNTY: JASPER	TWP/RNG: 6N 8E	SECTION: 14	QUARTERS/FOOTAGES: NW SW NE		
QUADRANGLE: LATONA	LONGITUDE: -88.286821		GEOLOGIST: C TREWORGY		
CONFIDENTIAL: N	LATITUDE: 38.960374		DATE COLLECTED:		
SURFACE ELEVATION (FT.): 551.0	LOGGED (FT.): 1498.0		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
-274.0	BOND	CARTHAGE	LIMESTONE	5.0	825.0
-445.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	996.0
-626.0	CARBONDALE	DANVILLE	COAL	3.5	1177.0
-665.0	CARBONDALE	HERRIN	COAL	6.0	1216.0
-705.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1256.0
-779.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1330.0
-929.0	CARBONDALE	COLCHESTER	COAL	-	1480.0
-940.0	SPOON	SEELYVILLE	COAL	7.0	1491.0

MAPID: 07922762000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 8E SECTION: 14 QUARTERS/FOOTAGES: 85' S line, 5' W line of SW SE

QUADRANGLE: LATONA LONGITUDE: -88.287824 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.950642 DATE COLLECTED: 8 / 0 / 1978

SURFACE ELEVATION (FT.): 548.0 LOGGED (FT.): 1300.0 LOG TYPE: Multiple log types

SOURCE: COASTAL STATES ILJC-78-3 WELL TYPE: Coal Test

COMMENT: DRILLERS LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
548.0			UNCONSOLIDATED	160.0	0.0	
388.0	MATTOON		CLAYSTONE & SILTSTONE	10.0	160.0	
378.0	MATTOON		GRAY SHALE	20.0	170.0	
358.0	MATTOON		CLAYSTONE & SILTSTONE	10.0	190.0	
348.0	MATTOON		SANDSTONE	5.0	200.0	
343.0	MATTOON		CLAYSTONE & SILTSTONE	10.0	205.0	
333.0	MATTOON		SANDSTONE	10.0	215.0	
323.0	MATTOON		SANDSTONE/SHALE	55.0	225.0	
268.0	MATTOON		CLAYSTONE & SILTSTONE	5.0	280.0	
263.0	MATTOON		CLAYSTONE/MUDSTONE	15.0	285.0	
248.0	MATTOON		SHALE	15.0	300.0	
233.0	MATTOON		SILTSTONE & SHALE	35.0	315.0	
198.0	MATTOON		SANDSTONE/SILTSTONE	70.0	350.0	
128.0	MATTOON		SANDSTONE	30.0	420.0	
98.0	MATTOON		SANDSTONE/SHALE	40.0	450.0	
58.0	MATTOON		MUDSTONE & CLAYSTONE	20.0	490.0	
38.0	MATTOON		SANDSTONE/SILTSTONE	10.5	510.0	
27.5	MATTOON		COAL	1.5	520.5	
26.0	MATTOON		SANDSTONE/LIMESTONE	78.0	522.0	
-52.0	MATTOON		SANDSTONE	25.0	600.0	
-77.0	MATTOON		SILTSTONE & SHALE	55.0	625.0	
-132.0	BOND		SANDSTONE	20.0	680.0	APPROX. TOP OF BOND
-152.0	BOND		GRAY SHALE	40.0	700.0	
-192.0	BOND		SILTSTONE & SHALE	20.0	740.0	
-212.0	BOND		MUDSTONE & SHALE	20.0	760.0	
-232.0	BOND		CLAYSTONE & SILTY SHALE	20.0	780.0	
-252.0	BOND		SILTSTONE & SHALE	20.0	800.0	
-272.0	BOND		DARK SHALE & BLACK SHALE	10.0	820.0	
-282.0	MODESTO		LIMESTONE	10.0	830.0	APPROX. TOP OF MODESTO
-292.0	MODESTO		CLAYSTONE & SILTY SHALE	60.0	840.0	
-352.0	MODESTO		SILTSTONE & SHALE	80.0	900.0	
-432.0	MODESTO		SANDSTONE	10.0	980.0	
-442.0	MODESTO		LIMESTONE	10.0	990.0	W.FR. LS?
-452.0	MODESTO		SILTSTONE & SHALE	50.0	1000.0	
-502.0	MODESTO		GRAY SHALE	30.0	1050.0	
-532.0	MODESTO		SILTSTONE & SHALE	58.0	1080.0	
-590.0	MODESTO		SHALE	1.0	1138.0	CORE #1 1138-1156

-591.0	MODESTO		CLAYSTONE & SILTSTONE	4.2	1139.0	
-595.2	MODESTO		GRAY SHALE	12.7	1143.2	
-607.9	MODESTO		CORE LOSS	0.2	1155.9	
-608.0	MODESTO		GRAY SHALE	7.7	1156.0	CORE #2 1156-1176
-615.7	CARBONDALE	DANVILLE	COAL	3.9	1163.7	
-619.6	CARBONDALE		CARBONACEOUS SHALE	0.1	1167.6	
-619.7	CARBONDALE		CLAYSTONE & SILTSTONE	6.3	1167.7	
-626.0	CARBONDALE		MUDSTONE	2.0	1174.0	
-628.0	CARBONDALE		MUDSTONE	0.7	1176.0	CORE #3 1176-1195
-628.7	CARBONDALE		LIMESTONE	0.7	1176.7	
-629.4	CARBONDALE		MUDSTONE	1.0	1177.4	
-630.4	CARBONDALE		SANDSTONE	0.3	1178.4	
-630.7	CARBONDALE		LIMESTONE/MUDSTONE	3.8	1178.7	
-634.5	CARBONDALE		MUDSTONE	2.2	1182.5	
-636.7	CARBONDALE		GRAY SHALE	0.6	1184.7	
-637.3	CARBONDALE		BLACK SHALE	2.0	1185.3	
-639.3	CARBONDALE		CALCAREOUS SHALE	1.5	1187.3	
-640.8	CARBONDALE		CARBONACEOUS SHALE	2.6	1188.8	
-643.4	CARBONDALE	CONANT	LIMESTONE	1.8	1191.4	
-645.2	CARBONDALE		CARBONACEOUS MUDSTONE	1.6	1193.2	
-646.8	CARBONDALE		CARBONACEOUS SHALE	0.2	1194.8	
-647.0	CARBONDALE		CORE LOSS	0.1	1195.0	E-LOG INDICATES 2.8' OF COAL
-647.0	CARBONDALE	JAMESTOWN	COAL	0.3	1195.0	CORE #4 1195-1209.95
-647.3	CARBONDALE		CARBONACEOUS SHALE	3.4	1195.3	
-650.7	CARBONDALE	BRERETON	LIMESTONE	5.2	1198.7	
-655.9	CARBONDALE	ANNA	CARBONACEOUS SHALE	0.2	1203.9	
-656.1	CARBONDALE	HERRIN	COAL	5.7	1204.1	
-661.7	CARBONDALE		CARBONACEOUS SHALE	0.3	1209.7	
-662.0	CARBONDALE		CLAYSTONE & SILTSTONE	4.1	1210.0	CORE #5 1209.95- 1225.15'
-666.0	CARBONDALE		LIMESTONE	0.4	1214.0	
-666.4	CARBONDALE		CLAYSTONE & SILTSTONE	0.9	1214.4	
-667.3	CARBONDALE		MUDSTONE & LIMESTONE	2.4	1215.3	
-669.7	CARBONDALE		MUDSTONE	1.3	1217.7	
-671.0	CARBONDALE		SILTSTONE	1.0	1219.0	
-672.0	CARBONDALE		MUDSTONE	2.0	1220.0	
-674.0	CARBONDALE		GRAY SHALE	3.2	1222.0	
-677.2	CARBONDALE		CARBONACEOUS MUDSTONE	4.4	1225.2	CORE #6 1225.15- 1242.8
-681.5	CARBONDALE		CLAYSTONE & SILTSTONE	0.5	1229.5	
-682.0	CARBONDALE		LIMESTONE W/ COAL	0.3	1230.0	
-682.3	CARBONDALE	BRIAR HILL	COAL	2.2	1230.3	
-684.5	CARBONDALE		CARBONACEOUS MUDSTONE	1.5	1232.5	
-686.0	CARBONDALE		CARBONACEOUS SHALE	2.6	1234.0	
-688.6	CARBONDALE	ST. DAVID	LIMESTONE	4.3	1236.6	
-692.9	CARBONDALE	TURNER MINE	CARBONACEOUS SHALE	1.9	1240.9	
-694.8	CARBONDALE	SPRINGFIELD	COAL	3.8	1242.8	0.5' CORED; SAYS E-LOG SHOWS 3.8' COAL

-698.6	CARBONDALE	UNKNOWN	3.4	1246.6
-702.0	CARBONDALE	CLAYSTONE & SILTSTONE	50.0	1250.0

MAPID: 07922763000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 8E SECTION: 14 QUARTERS/FOOTAGES: 30' N line, 930' E line
 QUADRANGLE: LATONA LONGITUDE: -88.281934 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.964655 DATE COLLECTED: 8 / 21 / 1978
 SURFACE ELEVATION (FT.): 550.0 LOGGED (FT.): 1303.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG-78-3 WELL TYPE: Coal Test
 COMMENT: GAMMA, DENSITY AND RESISTIVITY

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.0			UNCONSOLIDATED	106.0	0.0	
444.0	MATTOON	FALMOUTH	BLACK SHALE	3.0	106.0	
441.0	MATTOON		UNCLASSIFIED	61.0	109.0	UNK=UNKNOWN
380.0	MATTOON	INGRAHAM	BLACK SHALE	5.0	170.0	
375.0	MATTOON		UNCLASSIFIED	66.0	175.0	
309.0	MATTOON		LIMESTONE	2.0	241.0	
307.0	MATTOON		UNCLASSIFIED	13.0	243.0	
294.0	MATTOON	TEUTOPOLIS	BLACK SHALE	4.0	256.0	
290.0	MATTOON		UNCLASSIFIED	277.0	260.0	
13.0	MATTOON		BLACK SHALE	3.0	537.0	
10.0	MATTOON		UNCLASSIFIED	116.5	540.0	
-106.5	BOND	MILLERSVILLE	LIMESTONE	9.5	656.5	
-116.0	BOND		UNCLASSIFIED	88.5	666.0	
-204.5	BOND		COAL	1.5	754.5	
-206.0	BOND		UNCLASSIFIED	103.0	756.0	
-309.0	BOND	CARTHAGE	LIMESTONE	6.5	859.0	
-315.5	MODESTO		UNCLASSIFIED	0.5	865.5	
-316.0	MODESTO		BLACK SHALE	4.0	866.0	
-320.0	MODESTO		UNCLASSIFIED	10.5	870.0	
-330.5	MODESTO	NEW HAVEN	COAL	1.5	880.5	
-332.0	MODESTO		UNCLASSIFIED	125.0	882.0	
-457.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.5	1007.0	
-463.5	MODESTO		SHALE	1.5	1013.5	
-465.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	1015.0	
-472.0	MODESTO		UNCLASSIFIED	163.2	1022.0	
-635.2	CARBONDALE	DANVILLE	COAL	3.2	1185.2	
-638.4	CARBONDALE		SHALE	7.6	1188.4	
-646.0	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	1196.0	
-649.0	CARBONDALE		UNCLASSIFIED	12.6	1199.0	
-661.6	CARBONDALE	CONANT	LIMESTONE	2.0	1211.6	
-663.6	CARBONDALE		SHALE	0.6	1213.6	
-664.2	CARBONDALE	JAMESTOWN	COAL	2.6	1214.2	
-666.8	CARBONDALE		SHALE	3.0	1216.8	
-669.8	CARBONDALE	BRERETON	LIMESTONE	5.6	1219.8	
-675.4	CARBONDALE	ANNA	BLACK SHALE	3.1	1225.4	
-678.5	CARBONDALE	HERRIN	COAL	5.3	1228.5	
-683.8	CARBONDALE		UNCLASSIFIED	23.1	1233.8	
-706.9	CARBONDALE	BRIAR HILL	COAL	1.9	1256.9	
-708.8	CARBONDALE		SHALE	4.3	1258.8	

-713.1	CARBONDALE	ST. DAVID	LIMESTONE	0.8	1263.1
-713.9	CARBONDALE		SHALE	0.9	1263.9
-714.8	CARBONDALE	SPRINGFIELD	COAL	4.0	1264.8
-718.8	CARBONDALE		UNCLASSIFIED	34.2	1268.8

MAPID: 07922775000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 8E SECTION: 17 QUARTERS/FOOTAGES: 57' S line, 2600' E line
 QUADRANGLE: LATONA LONGITUDE: -88.34331 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.953302 DATE COLLECTED: 10 / 23 / 1978
 SURFACE ELEVATION (FT.): 554.0 LOGGED (FT.): 1240.0 LOG TYPE: Drillers Log
 SOURCE: MOBIL OIL CORP. IG-78-17 WELL TYPE: Coal Test
 COMMENT: GAMMA, DENSITY AND RESISTIVITY LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
554.0			UNCONSOLIDATED	32.0	0.0	
522.0	MATTOON	FALMOUTH	GRAY SHALE	37.0	32.0	
485.0	MATTOON		BLACK SHALE	3.0	69.0	
482.0	MATTOON		GRAY SHALE	48.0	72.0	
434.0	MATTOON		LIMESTONE	1.0	120.0	
433.0	MATTOON		GRAY SHALE	2.0	121.0	
431.0	MATTOON		LIMESTONE	2.0	123.0	
429.0	MATTOON		GRAY SHALE	13.0	125.0	
416.0	MATTOON	INGRAHAM	BLACK SHALE	6.0	138.0	
410.0	MATTOON		GRAY SHALE	13.0	144.0	
397.0	MATTOON		LIMESTONE	2.0	157.0	
395.0	MATTOON		GRAY SHALE	35.0	159.0	
360.0	MATTOON		SANDSTONE	3.0	194.0	
357.0	MATTOON		GRAY SHALE	26.0	197.0	
331.0	MATTOON		LIMESTONE	3.0	223.0	
328.0	MATTOON	TEUTOPOLIS	GRAY SHALE	26.0	226.0	
302.0	MATTOON		BLACK SHALE	6.0	252.0	
296.0	MATTOON		LIMESTONE	1.0	258.0	
295.0	MATTOON		GRAY SHALE	71.0	259.0	
224.0	MATTOON		SANDSTONE/SHALE	10.0	330.0	
214.0	MATTOON		SANDSTONE	50.0	340.0	
164.0	MATTOON		GRAY SHALE	104.0	390.0	
60.0	MATTOON		BLACK SHALE	4.0	494.0	
56.0	MATTOON		GRAY SHALE	16.0	498.0	
40.0	MATTOON		LIMESTONE	3.0	514.0	
37.0	MATTOON		GRAY SHALE	36.0	517.0	
1.0	MATTOON		GREEN SHALE	2.0	553.0	
-1.0	MATTOON		GRAY SHALE	35.0	555.0	
-36.0	BOND		GRAY SHALE	44.0	590.0	APPROXIMATE TOP OF BOND FM
-80.0	BOND		SHALE & SANDSTONE	21.0	634.0	
-101.0	BOND		SANDSTONE/SHALE	17.0	655.0	
-118.0	BOND		GRAY SHALE	82.0	672.0	
-200.0	BOND		LIMESTONE	1.0	754.0	
-201.0	BOND		GRAY SHALE	37.0	755.0	
-238.0	BOND	CARTHAGE	LIMESTONE	4.5	792.0	
-242.5	MODESTO	NEW HAVEN	BLACK SHALE	1.0	796.5	
-243.5	MODESTO		GRAY SHALE	152.5	797.5	
-396.0	MODESTO		LIMESTONE	3.0	950.0	
-399.0	MODESTO		GRAY SHALE	14.0	953.0	

-413.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	967.0	WITH SHALE PARTING
-428.0	MODESTO		GRAY SHALE	152.0	982.0	
-580.0	CARBONDALE	DANVILLE	COAL	2.5	1134.0	
-582.5	CARBONDALE		GRAY SHALE	27.0	1136.5	
-609.5	CARBONDALE	CONANT	LIMESTONE	2.0	1163.5	
-611.5	CARBONDALE	JAMESTOWN	COAL	2.5	1165.5	
-614.0	CARBONDALE		GRAY SHALE	3.0	1168.0	
-617.0	CARBONDALE	BRERETON	LIMESTONE	5.0	1171.0	
-622.0	CARBONDALE	ANNA	BLACK SHALE	0.9	1176.0	
-622.9	CARBONDALE	HERRIN	COAL	5.6	1176.9	
-628.5	CARBONDALE		GRAY SHALE	27.5	1182.5	
-656.0	CARBONDALE	BRIAR HILL	COAL	2.5	1210.0	
-658.5	CARBONDALE		GRAY SHALE	4.0	1212.5	
-662.5	CARBONDALE	ST. DAVID	LIMESTONE	1.0	1216.5	
-663.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	1217.5	
-665.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1219.0	
-669.0	CARBONDALE		GRAY SHALE	17.0	1223.0	

MAPID: 07900281000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 6N 8E **SECTION:** 20 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: LATONA **LONGITUDE:** -88.351357 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.940033 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 549.0 **LOGGED (FT.):** 1486.5 **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
-271.0	BOND	CARTHAGE	LIMESTONE	8.0	820.0
-449.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	998.0
-619.0	CARBONDALE	DANVILLE	COAL	2.0	1168.0
-660.0	CARBONDALE	HERRIN	COAL	5.0	1209.0
-706.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1255.0
-781.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1330.0
-919.0	CARBONDALE	COLCHESTER	COAL	-	1468.0
-933.0	SPOON	SEELYVILLE	COAL	4.5	1482.0

MAPID: 07900550000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 8E SECTION: 21 QUARTERS/FOOTAGES: SW SW SW
QUADRANGLE: LATONA LONGITUDE: -88.332899 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.939023 DATE COLLECTED:
SURFACE ELEVATION (FT.): 542.0 LOGGED (FT.): 1440.0 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
-249.0	BOND	CARTHAGE	LIMESTONE	5.0	791.0
-425.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	967.0
-591.0	CARBONDALE	DANVILLE	COAL	3.0	1133.0
-619.0	CARBONDALE	JAMESTOWN	COAL	-	1161.0
-631.0	CARBONDALE	HERRIN	COAL	4.0	1173.0
-669.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1211.0
-739.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1281.0
-874.0	CARBONDALE	COLCHESTER	COAL	-	1416.0
-893.0	SPOON	SEELYVILLE	COAL	5.0	1435.0

MAPID: 07900436000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 8E SECTION: 25 QUARTERS/FOOTAGES: SE SW SE
QUADRANGLE: LATONA LONGITUDE: -88.265738 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.92137 DATE COLLECTED:
SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 1526.5 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
-300.0	BOND	CARTHAGE	LIMESTONE	6.0	840.0
-498.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	1038.0
-668.0	CARBONDALE	DANVILLE	COAL	2.0	1208.0
-708.0	CARBONDALE	HERRIN	COAL	5.5	1248.0
-751.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1291.0
-821.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1361.0
-962.0	CARBONDALE	COLCHESTER	COAL	-	1502.0
-982.0	SPOON	SEELYVILLE	COAL	4.5	1522.0

MAPID: 07901106000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 6N 8E

SECTION: 32

QUARTERS/FOOTAGES: NW NE SW

QUADRANGLE: LATONA

LONGITUDE: -88.346414

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.916353

DATE COLLECTED:

SURFACE ELEVATION (FT.): 535.0

LOGGED (FT.): 1392.0

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	BOND	CARTHAGE	LIMESTONE	6.0	734.0
-378.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	913.0
-545.0	CARBONDALE	DANVILLE	COAL	2.5	1080.0
-590.0	CARBONDALE	HERRIN	COAL	4.5	1125.0
-630.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1165.0
-702.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1237.0
-834.0	CARBONDALE	COLCHESTER	COAL	-	1369.0
-852.0	SPOON	SEELYVILLE	COAL	5.0	1387.0

MAPID: 07922776000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 8E SECTION: 33 QUARTERS/FOOTAGES: 45' S line, 2545' E line
 QUADRANGLE: LATONA LONGITUDE: -88.324165 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.908833 DATE COLLECTED: 10 / 31 / 1978
 SURFACE ELEVATION (FT.): 535.0 LOGGED (FT.): 1240.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG-78-25C WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS, RESIST, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
535.0			UNCONSOLIDATED	40.0	0.0	
495.0	MATTOON		BLACK SHALE	1.0	40.0	
494.0	MATTOON		GRAY SHALE	12.0	41.0	
482.0	MATTOON		LIMESTONE	1.0	53.0	
481.0	MATTOON		SANDSTONE	6.0	54.0	
475.0	MATTOON		GRAY SHALE	28.0	60.0	
447.0	MATTOON		LIMESTONE	1.0	88.0	
446.0	MATTOON		GRAY SHALE	3.0	89.0	
443.0	MATTOON		LIMESTONE	1.0	92.0	
442.0	MATTOON		GRAY SHALE	2.0	93.0	
440.0	MATTOON		LIMESTONE	1.0	95.0	
439.0	MATTOON		SANDSTONE	6.0	96.0	"WATER SAND"
433.0	MATTOON		GRAY SHALE	33.0	102.0	
400.0	MATTOON		SANDSTONE/SHALE	10.0	135.0	
390.0	MATTOON		GRAY SHALE	43.0	145.0	
347.0	MATTOON		SANDSTONE	2.5	188.0	
344.5	MATTOON		GRAY SHALE	5.5	190.5	
339.0	MATTOON		SANDSTONE	6.0	196.0	
333.0	MATTOON		SHALE	33.0	202.0	
300.0	MATTOON		SANDSTONE	9.0	235.0	
291.0	MATTOON		SHALE & SANDSTONE	96.0	244.0	
195.0	MATTOON		GRAY SHALE	63.0	340.0	
132.0	MATTOON		SANDSTONE	18.0	403.0	
114.0	MATTOON		GRAY SHALE	69.0	421.0	
45.0	MATTOON		BLACK SHALE & CLAY	2.0	490.0	
43.0	MATTOON		SHALE & SANDSTONE	78.0	492.0	
-35.0	BOND	MILLERSVILLE	LIMESTONE	3.6	570.0	
-38.6	BOND		GRAY SHALE	13.1	573.6	
-51.7	BOND		COAL	1.5	586.7	
-53.2	BOND		GRAY SHALE	22.8	588.2	
-76.0	BOND		BLACK SHALE	1.5	611.0	
-77.5	BOND		GRAY SHALE	57.5	612.5	
-135.0	BOND		CALCAREOUS SHALE	90.0	670.0	
-225.0	BOND		GRAY SHALE	2.0	760.0	
-227.0	BOND	CARTHAGE	LIMESTONE	6.0	762.0	
-233.0	MODESTO		GRAY SHALE	2.0	768.0	
-235.0	MODESTO	NEW HAVEN	BLACK SHALE	1.0	770.0	
-236.0	MODESTO		GRAY SHALE	109.0	771.0	
-345.0	MODESTO		SILTY SHALE	50.8	880.0	

-395.8	MODESTO	WEST FRANKLIN	LIMESTONE	17.7	930.8	
-413.5	MODESTO		GRAY SHALE	163.5	948.5	
-577.0	CARBONDALE	DANVILLE	COAL	3.5	1112.0	
-580.5	CARBONDALE		GRAY SHALE	33.0	1115.5	
-613.5	CARBONDALE	JAMESTOWN	COAL	1.0	1148.5	
-614.5	CARBONDALE		GRAY SHALE	2.0	1149.5	
-616.5	CARBONDALE	BRERETON	LIMESTONE	3.8	1151.5	
-620.3	CARBONDALE		GRAY SHALE	1.7	1155.3	
-622.0	CARBONDALE	ANNA	BLACK SHALE	0.5	1157.0	
-622.5	CARBONDALE	HERRIN	COAL	5.0	1157.5	CORE #1 1157.5-1163.5
-627.5	CARBONDALE		UNDERCLAY	1.1	1162.5	(OFF BY 2.5' FROM LOG.)
-628.5	CARBONDALE		GRAY SHALE	29.0	1163.5	
-657.5	CARBONDALE	BRIAR HILL	COAL	2.5	1192.5	
-660.0	CARBONDALE		GRAY SHALE	6.0	1195.0	
-666.0	CARBONDALE	ST. DAVID	LIMESTONE	0.8	1201.0	
-666.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.2	1201.8	
-667.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	1202.0	CORE #2 1202-1208.5
-667.6	CARBONDALE		SHALE/COAL	0.4	1202.6	
-668.0	CARBONDALE	SPRINGFIELD	COAL	4.7	1203.0	
-672.7	CARBONDALE		UNDERCLAY	0.9	1207.7	
-673.5	CARBONDALE		GRAY SHALE	31.5	1208.5	

MAPID: 07900437000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 6N 8E **SECTION:** 34 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: LATONA **LONGITUDE:** -88.314329 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.921873 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 537.0 **LOGGED (FT.):** 1458.0 **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	BOND	CARTHAGE	LIMESTONE	6.0	781.0
-434.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	971.0
-601.0	CARBONDALE	DANVILLE	COAL	2.0	1138.0
-644.0	CARBONDALE	HERRIN	COAL	5.0	1181.0
-687.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1224.0
-901.0	CARBONDALE	COLCHESTER	COAL	-	1438.0
-917.0	SPOON	SEELYVILLE	COAL	4.0	1454.0

MAPID: 07900737000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 8E SECTION: 34 QUARTERS/FOOTAGES: SW SE NE
QUADRANGLE: LATONA LONGITUDE: -88.300257 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.915698 DATE COLLECTED:
SURFACE ELEVATION (FT.): 486.0 LOGGED (FT.): 1401.0 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
-418.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	904.0
-599.0	CARBONDALE	DANVILLE	COAL	3.0	1085.0
-645.0	CARBONDALE	HERRIN	COAL	2.5	1131.0
-686.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1172.0
-759.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1245.0
-895.0	CARBONDALE	COLCHESTER	COAL	-	1381.0
-911.0	SPOON	SEELYVILLE	COAL	4.0	1397.0

MAPID: 07900386000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 8E SECTION: 35 QUARTERS/FOOTAGES: SW NE NE
QUADRANGLE: LATONA LONGITUDE: -88.281981 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.918275 DATE COLLECTED:
SURFACE ELEVATION (FT.): 493.0 LOGGED (FT.): 1433.0 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
-270.0	BOND	CARTHAGE	LIMESTONE	7.0	763.0
-453.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	946.0
-646.0	CARBONDALE	DANVILLE	COAL	4.0	1139.0
-692.0	CARBONDALE	HERRIN	COAL	5.0	1185.0
-743.0	CARBONDALE	SPRINGFIELD	COAL	-	1236.0
-781.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1274.0
-923.0	CARBONDALE	COLCHESTER	COAL	-	1416.0
-933.0	SPOON	SEELYVILLE	COAL	7.0	1426.0

MAPID: 07923155000C **VERSION:** 1 **PROJECT:** NCRDS88
COUNTY: JASPER **TWP/RNG:** 6N 8E **SECTION:** 36 **QUARTERS/FOOTAGES:** 2574' S line, 36' E line
QUADRANGLE: LATONA **LONGITUDE:** -88.259988 **GEOLOGIST:** R. SMITH
CONFIDENTIAL: N **LATITUDE:** 38.913026 **DATE COLLECTED:** 11 / 29 / 1979
SURFACE ELEVATION (FT.): 543.0 **LOGGED (FT.):** 1292.0 **LOG TYPE:** Multiple log types
SOURCE: MOBIL OIL CORP. **WELL TYPE:** Coal Test
COMMENT: GAMMA, DENSITY, RESIST. AND DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
543.0			UNCONSOLIDATED	63.0	0.0
480.0	MATTOON	FALMOUTH	GRAY SHALE	10.0	63.0
470.0	MATTOON		BLACK SHALE	3.0	73.0
467.0	MATTOON		GRAY SHALE	18.0	76.0
449.0	MATTOON		SANDSTONE	6.0	94.0
443.0	MATTOON		SHALE	20.5	100.0
422.5	MATTOON		BLACK SHALE	1.5	120.5
421.0	MATTOON	TROWBRIDGE	COAL	2.0	122.0
419.0	MATTOON		GRAY SHALE	9.0	124.0
410.0	MATTOON	BOGOTA	LIMESTONE	0.5	133.0
409.5	MATTOON		GRAY SHALE	2.5	133.5
407.0	MATTOON	INGRAHAM	BLACK SHALE	8.0	136.0
399.0	MATTOON		GRAY SHALE	14.0	144.0
385.0	MATTOON		LIMESTONE	0.5	158.0
384.5	MATTOON		GREEN SHALE	1.5	158.5
383.0	MATTOON		LIMESTONE	4.5	160.0
378.5	MATTOON		GRAY SHALE	68.5	164.5
310.0	MATTOON	SHUMWAY	LIMESTONE	0.5	233.0
309.5	MATTOON	TEUTOPOLIS	BLACK SHALE	3.0	233.5
306.5	MATTOON		GRAY SHALE	22.5	236.5
284.0	MATTOON		LIMESTONE	2.0	259.0
282.0	MATTOON		SANDSTONE	9.0	261.0
273.0	MATTOON		SHALE	43.0	270.0
230.0	MATTOON		LIMESTONE	1.0	313.0
229.0	MATTOON		COAL	0.5	314.0
228.5	MATTOON		GRAY SHALE	5.5	314.5
223.0	MATTOON		LIMESTONE	0.5	320.0
222.5	MATTOON		GRAY SHALE	45.5	320.5
177.0	MATTOON		LIMESTONE	3.0	366.0
174.0	MATTOON		GRAY SHALE	73.0	369.0
101.0	MATTOON		SANDSTONE	43.0	442.0
58.0	MATTOON		LIMESTONE	1.5	485.0
56.5	MATTOON		SANDSTONE	5.5	486.5
51.0	MATTOON		GRAY SHALE	20.0	492.0
31.0	MATTOON		BLACK SHALE	4.0	512.0
27.0	MATTOON		GRAY SHALE	4.0	516.0
23.0	MATTOON		SANDSTONE	8.0	520.0
15.0	MATTOON		GRAY SHALE	7.5	528.0
7.5	BOND	MILLERSVILLE	LIMESTONE	2.5	535.5

5.0	BOND		SANDY LIMESTONE	3.0	538.0	
2.0	BOND		LIMESTONE	1.0	541.0	
1.0	BOND		SANDSTONE	10.0	542.0	
-9.0	BOND		GRAY SHALE	4.0	552.0	
-13.0	BOND		SANDSTONE	4.0	556.0	
-17.0	BOND		GRAY SHALE	12.0	560.0	
-29.0	BOND		BLACK SHALE	1.5	572.0	
-30.5	BOND		GRAY SHALE	6.5	573.5	
-37.0	BOND		SANDSTONE	46.0	580.0	
-83.0	BOND		LIMESTONE	2.0	626.0	
-85.0	BOND		GRAY SHALE	11.0	628.0	
-96.0	BOND		COAL	1.0	639.0	
-97.0	BOND		GRAY SHALE	4.0	640.0	
-101.0	BOND		SANDSTONE	8.0	644.0	
-109.0	BOND		SHALE	16.0	652.0	
-125.0	BOND		LIMESTONE	0.5	668.0	
-125.5	BOND		GRAY SHALE	3.5	668.5	
-129.0	BOND		COAL	1.0	672.0	
-130.0	BOND		GRAY SHALE	49.0	673.0	
-179.0	BOND		BLACK SHALE	4.0	722.0	OFF GAMMA LOG
-183.0	BOND		GRAY SHALE	85.0	726.0	
-268.0	BOND	CARTHAGE	LIMESTONE	5.5	811.0	AVE. THICKNESS B/LOGS
-273.5	MODESTO		GRAY SHALE	0.5	816.5	
-274.0	MODESTO	NEW HAVEN	BLACK SHALE	2.0	817.0	
-276.0	MODESTO		GRAY SHALE	1.0	819.0	
-277.0	MODESTO		SANDSTONE	6.0	820.0	
-283.0	MODESTO		GRAY SHALE	62.0	826.0	
-345.0	MODESTO		BLACK SHALE	2.0	888.0	
-347.0	MODESTO		GRAY SHALE	40.0	890.0	
-387.0	MODESTO		SANDSTONE	73.0	930.0	
-460.0	MODESTO		LIMESTONE	9.0	1003.0	
-469.0	MODESTO		GRAY SHALE	4.0	1012.0	
-473.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.5	1016.0	
-479.5	MODESTO	WEST FRANKLIN	GRAY SHALE	1.0	1022.5	
-480.5	MODESTO	WEST FRANKLIN	LIMESTONE	1.5	1023.5	
-482.0	MODESTO		GREEN SHALE	7.0	1025.0	
-489.0	MODESTO		SANDSTONE	5.0	1032.0	
-494.0	MODESTO		LIMESTONE	3.0	1037.0	LOWER BENCH W.FR.?
-497.0	MODESTO		GRAY SHALE	145.0	1040.0	
-642.0	CARBONDALE	DANVILLE	COAL	3.5	1185.0	
-645.5	CARBONDALE		GRAY SHALE	5.5	1188.5	
-651.0	CARBONDALE	BANKSTON FORK	LIMESTONE	2.5	1194.0	UNCERTAIN CORRELATION
-653.5	CARBONDALE	BANKSTON FORK	GRAY SHALE	1.5	1196.5	UNCERTAIN CORRELATION
-655.0	CARBONDALE	BANKSTON FORK	LIMESTONE	0.5	1198.0	UNCERTAIN CORRELATION
-655.5	CARBONDALE		GRAY SHALE	10.5	1198.5	
-666.0	CARBONDALE	CONANT	LIMESTONE	2.5	1209.0	
-668.5	CARBONDALE		GRAY SHALE	0.5	1211.5	

-669.0	CARBONDALE	JAMESTOWN	COAL	1.5	1212.0
-670.5	CARBONDALE		GRAY SHALE	6.5	1213.5
-677.0	CARBONDALE	BRERETON	LIMESTONE	5.5	1220.0
-682.5	CARBONDALE	ANNA	BLACK SHALE	2.5	1225.5
-685.0	CARBONDALE	HERRIN	COAL	5.5	1228.0
-690.5	CARBONDALE		GRAY SHALE	2.5	1233.5
-693.0	CARBONDALE		LIMESTONE	1.5	1236.0
-694.5	CARBONDALE		GRAY SHALE	17.5	1237.5
-712.0	CARBONDALE	BRIAR HILL	COAL	2.0	1255.0
-714.0	CARBONDALE		GRAY SHALE	6.5	1257.0
-720.5	CARBONDALE	ST. DAVID	LIMESTONE	3.0	1263.5
-723.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	1266.5
-724.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1267.0
-729.0	CARBONDALE		GRAY SHALE	8.0	1272.0
-737.0	CARBONDALE		LIMESTONE	3.0	1280.0
-740.0	CARBONDALE		GRAY SHALE	9.0	1283.0

MAPID: 07901107000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 6N 9E **SECTION:** 2 **QUARTERS/FOOTAGES:** SW SW SW
QUADRANGLE: NEWTON **LONGITUDE:** -88.187274 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.980882 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 563.0 **LOGGED (FT.):** 1447.0 **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
-249.0	BOND	CARTHAGE	LIMESTONE	5.0	812.0
-405.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	968.0
-570.0	CARBONDALE	DANVILLE	COAL	2.0	1133.0
-621.0	CARBONDALE	HERRIN	COAL	5.0	1184.0
-657.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1220.0
-731.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1294.0
-867.0	CARBONDALE	COLCHESTER	COAL	-	1430.0
-879.0	SPOON	SEELYVILLE	COAL	5.0	1442.0

MAPID: 07922850000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 4 QUARTERS/FOOTAGES: 1378' N line, 1879' E line of NE

QUADRANGLE: NEWTON LONGITUDE: -88.213972 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.990743 DATE COLLECTED: 11 / 14 / 1978

SURFACE ELEVATION (FT.): 550.0 LOGGED (FT.): 1300.0 LOG TYPE: Multiple log types

SOURCE: COASTAL STATES ILJC-78-9 WELL TYPE: Coal Test

COMMENT: GAMMA, DENS, NEUTRON, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.0			UNCONSOLIDATED	10.0	0.0	
540.0	MATTOON		SANDSTONE	10.0	10.0	DRILLERS LOG VERY GENERALIZED
530.0	MATTOON		SILTSTONE/LIMESTONE	10.0	20.0	
520.0	MATTOON		SILTSTONE	60.0	30.0	
460.0	MATTOON		GRAY SHALE	10.0	90.0	
450.0	MATTOON	FALMOUTH	BLACK SHALE	3.0	100.0	
447.0	MATTOON		SHALE	17.0	103.0	
430.0	MATTOON		CLAYSTONE & SILTSTONE	12.0	120.0	
418.0	MATTOON	WETWETHER	BLACK SHALE	2.0	132.0	
416.0	MATTOON		GRAY SHALE	8.0	134.0	
408.0	MATTOON	TROWBRIDGE	COAL	2.0	142.0	
406.0	MATTOON		GRAY SHALE	16.0	144.0	
390.0	MATTOON	INGRAHAM	BLACK SHALE	6.0	160.0	
384.0	MATTOON		CALCAREOUS SHALE	44.0	166.0	
340.0	MATTOON		SHALE & SANDSTONE	10.0	210.0	
330.0	MATTOON		SILTY SHALE	20.0	220.0	
310.0	MATTOON		GRAY SHALE	8.0	240.0	
302.0	MATTOON	TEUTOPOLIS	BLACK SHALE	4.0	248.0	
298.0	MATTOON		GRAY SHALE	38.0	252.0	
260.0	MATTOON		SILTSTONE	20.0	290.0	
240.0	MATTOON		SANDSTONE	20.0	310.0	
220.0	MATTOON		SILTSTONE	10.0	330.0	
210.0	MATTOON		SANDSTONE/SILTSTONE	10.0	340.0	
200.0	MATTOON		SILTSTONE	30.0	350.0	
170.0	MATTOON		SHALE	20.0	380.0	
150.0	MATTOON		SHALE & CLAYSTONE	10.0	400.0	
140.0	MATTOON		SHALE	10.0	410.0	
130.0	MATTOON		SILTY SHALE	10.0	420.0	
120.0	MATTOON		SHALE	10.0	430.0	
110.0	MATTOON		SILTSTONE	10.0	440.0	
100.0	MATTOON		SHALE	10.0	450.0	
90.0	MATTOON		SILTSTONE	90.0	460.0	BKSH AT 526-528
0.0	MATTOON		CALCAREOUS SHALE	10.0	550.0	
-10.0	MATTOON		SHALE & SANDSTONE	10.0	560.0	
-20.0	MATTOON		SHALE	10.0	570.0	
-30.0	MATTOON		SHALE & SANDSTONE	10.0	580.0	
-40.0	MATTOON		SANDSTONE	10.0	590.0	
-50.0	MATTOON		SHALE	10.0	600.0	
-60.0	MATTOON		COAL WITH SHALE	10.0	610.0	

-70.0	MATTOON		SANDSTONE/SHALE/COAL	10.0	620.0	
-80.0	MATTOON		SILTY SHALE	10.0	630.0	
-90.0	MATTOON		BLACK SHALE	10.0	640.0	
-100.0	MATTOON		COAL WITH SHALE	12.0	650.0	
-112.0	BOND	MILLERSVILLE	LIMESTONE W/ SHALE	6.0	662.0	MVL 660-666 ON GAMMA LOG
-118.0	BOND		SHALE	12.0	668.0	
-130.0	BOND		BLACK SHALE & CLAY	10.0	680.0	
-140.0	BOND		SHALE	50.0	690.0	
-190.0	BOND		SHALE/COAL	10.0	740.0	
-200.0	BOND		SHALE	20.0	750.0	
-220.0	BOND		SHALE/COAL	10.0	770.0	
-230.0	BOND		SHALE	10.0	780.0	
-240.0	BOND		SILTSTONE	20.0	790.0	
-260.0	BOND		GRAY SHALE	8.0	810.0	
-268.0	BOND	CARTHAGE	LIMESTONE	4.0	818.0	
-272.0	MODESTO	NEW HAVEN	BLACK SHALE & CLAY	6.0	822.0	
-278.0	MODESTO		CALCAREOUS SHALE	12.0	828.0	
-290.0	MODESTO		SILTSTONE	10.0	840.0	
-300.0	MODESTO		SHALE	30.0	850.0	
-330.0	MODESTO	CHAPEL	BLACK SHALE & CLAY	10.0	880.0	
-340.0	MODESTO		CLAYSTONE & SILTSTONE	10.0	890.0	
-350.0	MODESTO		SILTY SHALE	10.0	900.0	
-360.0	MODESTO		COAL WITH SHALE	10.0	910.0	
-370.0	MODESTO		SHALE	10.0	920.0	
-380.0	MODESTO		COAL WITH SHALE	10.0	930.0	
-390.0	MODESTO		GRAY SHALE	40.0	940.0	
-430.0	MODESTO		COAL WITH SHALE	10.0	980.0	
-440.0	MODESTO		SHALE	10.0	990.0	
-450.0	MODESTO		COAL WITH SHALE	10.0	1000.0	
-460.0	MODESTO		SHALE/COAL	50.0	1010.0	
-510.0	MODESTO		SANDSTONE	22.0	1060.0	W.FR. LS ABSENT
-532.0	MODESTO		GRAY SHALE	2.0	1082.0	
-534.0	MODESTO		SANDSTONE	16.0	1084.0	
-550.0	MODESTO		SHALE	58.5	1100.0	
-608.5	CARBONDALE	DANVILLE	COAL	2.5	1158.5	
-611.0	CARBONDALE		SHALE & SANDSTONE	19.0	1161.0	
-630.0	CARBONDALE		GRAY SHALE	13.0	1180.0	CORE #1 1180-1200
-643.0	CARBONDALE		DARK SHALE & BLACK SHALE	0.5	1193.0	
-643.5	CARBONDALE	CONANT	LIMESTONE	2.5	1193.5	
-646.0	CARBONDALE	JAMESTOWN	COAL	2.9	1196.0	
-648.9	CARBONDALE		GRAY SHALE	0.9	1198.9	
-649.8	CARBONDALE	BRERETON	LIMESTONE	0.2	1199.8	
-650.0	CARBONDALE	BRERETON	LIMESTONE	6.3	1200.0	CORE #2 1200-1220.5'
-656.3	CARBONDALE		GRAY SHALE	2.3	1206.3	
-658.6	CARBONDALE	ANNA	BLACK SHALE & CLAY	1.4	1208.6	
-659.9	CARBONDALE	HERRIN	COAL	6.4	1209.9	
-666.3	CARBONDALE		GRAY SHALE	4.2	1216.3	

-670.5	CARBONDALE		CLAYSTONE & SILTSTONE	0.7	1220.5	CORE #3 1220.5-1240.5
-671.2	CARBONDALE		SHALE	13.2	1221.2	
-684.4	CARBONDALE		BLACK SHALE	2.2	1234.4	
-686.6	CARBONDALE		BLACK SHALE & CLAY	0.4	1236.6	
-687.0	CARBONDALE	BRIAR HILL	COAL	1.6	1237.0	
-688.6	CARBONDALE		DARK SHALE & BLACK SHALE	2.0	1238.6	
-690.5	CARBONDALE	TURNER MINE	BLACK SHALE	4.3	1240.5	CORE #4 1240.5-1254.4
-694.8	CARBONDALE	SPRINGFIELD	COAL	3.3	1244.8	
-698.1	CARBONDALE		CLAYSTONE & SILTSTONE	3.9	1248.1	
-702.0	CARBONDALE		GRAY SHALE	2.4	1252.0	
-704.4	CARBONDALE		GRAY SHALE	45.6	1254.4	

MAPID: 07900334000C
VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER
TWP/RNG: 6N 9E
SECTION: 5

QUARTERS/FOOTAGES: NW NW NE

QUADRANGLE: NEWTON
LONGITUDE: -88.23479

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N
LATITUDE: 38.993426

DATE COLLECTED:

SURFACE ELEVATION (FT.): 558.0
LOGGED (FT.): 1484.0

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	
-265.0	BOND	CARTHAGE	LIMESTONE	6.0	823.0	
-397.0	MODESTO	TRIVOLI	SANDSTONE	110.0	955.0	
-609.0	CARBONDALE	DANVILLE	COAL	3.0	1167.0	
-659.0	CARBONDALE	HERRIN	COAL	5.0	1217.0	
-695.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1253.0	
-784.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1342.0	
-926.0	CARBONDALE	COLCHESTER	COAL	-	1484.0	

MAPID: 07922764000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 5 QUARTERS/FOOTAGES: 22' N line, 58' W line of NW NE SW
 QUADRANGLE: NEWTON LONGITUDE: -88.240562 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.986727 DATE COLLECTED: 8 / 0 / 1978
 SURFACE ELEVATION (FT.): 551.7 LOGGED (FT.): 1300.0 LOG TYPE: Multiple log types
 SOURCE: COASTAL STATES ILJC-78-1 WELL TYPE: Coal Test
 COMMENT: DRILLERS LOG AND CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
551.7			UNCONSOLIDATED	30.0	0.0	DRILLERS LOG VERY GENERALIZED
521.7	MATTOON		MUDSTONE & SANDSTONE	20.0	30.0	
501.7	MATTOON		MUDSTONE	70.0	50.0	
431.7	MATTOON		MUDSTONE & SANDSTONE	20.0	120.0	
411.7	MATTOON		MUDSTONE	30.0	140.0	
381.7	MATTOON		CARBONACEOUS SHALE	20.0	170.0	
361.7	MATTOON		MUDSTONE	60.0	190.0	
301.7	MATTOON		SANDSTONE	50.0	250.0	
251.7	MATTOON		MUDSTONE	20.0	300.0	
231.7	MATTOON		SILTSTONE	60.0	320.0	
171.7	MATTOON		MUDSTONE	70.0	380.0	
101.7	MATTOON		SANDSTONE	60.0	450.0	
41.7	MATTOON		SILTSTONE	30.0	510.0	
11.7	MATTOON		CARBONACEOUS SHALE	10.0	540.0	
1.7	MATTOON		SANDSTONE	10.0	550.0	
-8.3	MATTOON		SILTSTONE	80.0	560.0	
-88.3	BOND		SANDSTONE/SILTSTONE	50.0	640.0	APPROX. TOP OF BOND
-138.3	BOND		CARBONACEOUS SHALE	20.0	690.0	
-158.3	BOND		MUDSTONE	20.0	710.0	
-178.3	BOND		SHALE	40.0	730.0	
-218.3	BOND		SILTSTONE	20.0	770.0	
-238.3	BOND		GRAY SHALE	20.0	790.0	
-258.3	BOND		SILTSTONE	45.0	810.0	
-303.3	BOND	CARTHAGE	LIMESTONE	5.0	855.0	UNCERTAIN CORRELATION
-308.3	MODESTO		SILTSTONE	30.0	860.0	
-338.3	MODESTO		GRAY SHALE	20.0	890.0	
-358.3	MODESTO		CARBONACEOUS SHALE	10.0	910.0	
-368.3	MODESTO		SILTSTONE/SANDSTONE	70.0	920.0	
-438.3	MODESTO		SANDSTONE	10.0	990.0	
-448.3	MODESTO		SILTSTONE	60.0	1000.0	W.FR. LS INTERVAL
-508.3	MODESTO		SANDSTONE	30.0	1060.0	
-538.3	MODESTO		MUDSTONE	80.0	1090.0	
-618.3	MODESTO		GRAY SHALE	9.0	1170.0	CORE #1 1170-1189.2
-627.3	MODESTO		BLACK SHALE	1.0	1179.0	
-628.3	CARBONDALE	DANVILLE	COAL	3.3	1180.0	
-631.6	CARBONDALE		MUDSTONE	2.5	1183.3	
-634.0	CARBONDALE		SILTSTONE	3.5	1185.7	
-637.5	CARBONDALE		SILTSTONE	0.4	1189.2	CORE #2 1189.2-1207.4
-637.9	CARBONDALE		SANDSTONE	4.3	1189.6	

-642.2	CARBONDALE		SANDSTONE & MUDSTONE	8.4	1193.9	
-650.6	CARBONDALE		SANDSTONE/SHALE	2.4	1202.3	
-653.0	CARBONDALE		DARK SHALE & BLACK SHALE	2.7	1204.7	
-655.7	CARBONDALE		MUDSTONE	1.9	1207.4	CORE #3 1207.4-1222.1
-657.6	CARBONDALE		CARBONACEOUS SHALE	1.7	1209.3	
-659.3	CARBONDALE	CONANT	LIMESTONE	2.5	1211.0	
-661.8	CARBONDALE	JAMESTOWN	COAL	2.5	1213.5	
-664.3	CARBONDALE		CARBONACEOUS SHALE	1.0	1216.0	
-665.3	CARBONDALE		CARBONACEOUS LIMESTONE	2.2	1217.0	
-667.5	CARBONDALE	BRERETON	LIMESTONE	1.9	1219.2	
-669.4	CARBONDALE	BRERETON	MUDSTONE	1.2	1221.1	CORE #4 1222.1-1290.4
-670.6	CARBONDALE	BRERETON	LIMESTONE	6.3	1222.3	
-676.9	CARBONDALE	ANNA	CARBONACEOUS SHALE	0.7	1228.6	
-677.6	CARBONDALE	HERRIN	COAL	5.8	1229.3	
-683.4	CARBONDALE		MUDSTONE	3.5	1235.1	
-686.8	CARBONDALE		SANDY LIMESTONE	0.6	1238.5	
-687.4	CARBONDALE		MUDSTONE	1.3	1239.1	
-688.7	CARBONDALE		MUDSTONE	1.7	1240.4	CORE #5 1240.4-1256.35
-690.4	CARBONDALE		SANDSTONE & MUDSTONE	2.5	1242.1	
-692.9	CARBONDALE		SHALE & SANDSTONE	5.0	1244.6	
-697.9	CARBONDALE		GRAY SHALE	1.2	1249.6	
-699.1	CARBONDALE		SHALE & SILTSTONE	5.6	1250.8	
-704.7	CARBONDALE		GRAY SHALE	1.5	1256.4	CORE #6 1256.35-1276
-706.1	CARBONDALE	BRIAR HILL	COAL	2.0	1257.8	
-708.1	CARBONDALE		CARBONACEOUS SHALE	3.8	1259.8	
-711.9	CARBONDALE	ST. DAVID	LIMESTONE	4.8	1263.6	
-716.7	CARBONDALE	TURNER MINE	CARBONACEOUS SHALE	0.9	1268.4	
-717.6	CARBONDALE	SPRINGFIELD	COAL	4.1	1269.3	
-721.7	CARBONDALE		SILTSTONE	1.2	1273.4	
-722.8	CARBONDALE		MUDSTONE	1.5	1274.5	
-724.3	CARBONDALE		MUDSTONE	24.0	1276.0	

MAPID: 07922765000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 5 QUARTERS/FOOTAGES: 80' S line, 1340' E line
 QUADRANGLE: NEWTON LONGITUDE: -88.231117 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.979592 DATE COLLECTED: 8 / 23 / 1978
 SURFACE ELEVATION (FT.): 530.0 LOGGED (FT.): 1278.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG-78-9C WELL TYPE: Coal Test
 COMMENT: GAMMA, DENSITY, AND RESIST. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
441.0	MATTOON	FALMOUTH	BLACK SHALE	3.5	89.0	
437.5	MATTOON		UNCLASSIFIED	26.5	92.5	
411.0	MATTOON	WETWETHER	BLACK SHALE	4.0	119.0	
407.0	MATTOON		UNCLASSIFIED	7.0	123.0	
400.0	MATTOON	TROWBRIDGE	COAL	3.0	130.0	
397.0	MATTOON		UNCLASSIFIED	12.0	133.0	
385.0	MATTOON	BOGOTA	LIMESTONE	1.5	145.0	
383.5	MATTOON	INGRAHAM	BLACK SHALE	6.5	146.5	
377.0	MATTOON		UNCLASSIFIED	12.0	153.0	
365.0	MATTOON		LIMESTONE	5.0	165.0	
360.0	MATTOON		UNCLASSIFIED	31.0	170.0	
329.0	MATTOON		LIMESTONE	1.0	201.0	
328.0	MATTOON		UNCLASSIFIED	32.5	202.0	
295.5	MATTOON	TEUTOPOLIS	BLACK SHALE	4.3	234.5	
291.2	MATTOON		UNCLASSIFIED	12.7	238.8	
278.5	MATTOON		LIMESTONE	4.5	251.5	
274.0	MATTOON		UNCLASSIFIED	65.0	256.0	
209.0	MATTOON		COAL	1.0	321.0	
208.0	MATTOON		UNCLASSIFIED	199.0	322.0	
9.0	MATTOON		BLACK SHALE	3.0	521.0	
6.0	MATTOON		UNCLASSIFIED	32.5	524.0	
-26.5	MATTOON		COAL	1.0	556.5	
-27.5	MATTOON		UNCLASSIFIED	100.5	557.5	
-128.0	BOND		BLACK SHALE	4.5	658.0	APPROXIMATE TOP OF BOND FM.
-132.5	BOND		UNCLASSIFIED	68.5	662.5	
-201.0	BOND		BLACK SHALE	3.3	731.0	
-204.3	BOND		UNCLASSIFIED	41.7	734.3	
-246.0	BOND		COAL	2.0	776.0	
-248.0	BOND		UNCLASSIFIED	56.0	778.0	
-304.0	BOND	CARTHAGE	LIMESTONE	4.0	834.0	
-308.0	MODESTO		BLACK SHALE	1.7	838.0	
-309.7	MODESTO		UNCLASSIFIED	5.3	839.7	
-315.0	MODESTO	NEW HAVEN	COAL	1.5	845.0	
-316.5	MODESTO		UNCLASSIFIED	32.5	846.5	
-349.0	MODESTO	CHAPEL	COAL	3.0	879.0	
-352.0	MODESTO		UNCLASSIFIED	73.0	882.0	
-425.0	MODESTO	TRIVOLI	SANDSTONE	103.0	955.0	
-528.0	MODESTO		UNCLASSIFIED	109.5	1058.0	
-637.5	CARBONDALE	DANVILLE	COAL	2.9	1167.5	

-640.4	CARBONDALE		UNCLASSIFIED	8.2	1170.4
-648.6	CARBONDALE	BANKSTON FORK	LIMESTONE	5.4	1178.6
-654.0	CARBONDALE		UNCLASSIFIED	19.2	1184.0
-673.2	CARBONDALE	JAMESTOWN	COAL	2.8	1203.2
-676.0	CARBONDALE		SHALE	1.6	1206.0
-677.6	CARBONDALE	BRERETON	LIMESTONE	4.6	1207.6
-682.2	CARBONDALE	ANNA	BLACK SHALE	0.8	1212.2
-683.0	CARBONDALE	HERRIN	COAL	6.2	1213.0
-689.2	CARBONDALE		UNCLASSIFIED	19.2	1219.2
-708.4	CARBONDALE	BRIAR HILL	COAL	1.9	1238.4
-710.3	CARBONDALE		UNCLASSIFIED	4.5	1240.3
-714.8	CARBONDALE	ST. DAVID	LIMESTONE	3.2	1244.8
-718.0	CARBONDALE	TURNER MINE	SHALE	3.0	1248.0
-721.0	CARBONDALE	SPRINGFIELD	COAL	4.1	1251.0
-725.1	CARBONDALE		UNCLASSIFIED	22.9	1255.1

MAPID: 07923156000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 9 QUARTERS/FOOTAGES: 648' S line, 1968' W line
 QUADRANGLE: NEWTON LONGITUDE: -88.21934 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.966758 DATE COLLECTED: 11 / 12 / 1979
 SURFACE ELEVATION (FT.): 550.0 LOGGED (FT.): 1525.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG79-9-19C WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS, RESIST, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
550.0			UNCONSOLIDATED	16.0	0.0
534.0	MATTOON		SHALE	4.0	16.0
530.0	MATTOON		SILTSTONE/SANDSTONE	10.0	20.0
520.0	MATTOON		SHALE & SANDSTONE	50.0	30.0
470.0	MATTOON		GRAY SHALE	30.0	80.0
440.0	MATTOON	FALMOUTH	BLACK SHALE	1.5	110.0
438.5	MATTOON		LIMESTONE	0.5	111.5
438.0	MATTOON		GRAY SHALE	38.0	112.0
400.0	MATTOON	INGRAHAM	BLACK SHALE & CLAY	4.0	150.0
396.0	MATTOON		GREEN SHALE	9.5	154.0
386.5	MATTOON		LIMESTONE	0.5	163.5
386.0	MATTOON		GRAY SHALE	23.0	164.0
363.0	MATTOON		LIMESTONE	1.0	187.0
362.0	MATTOON		SANDSTONE/LIMESTONE	3.0	188.0
359.0	MATTOON		GRAY SHALE	38.5	191.0
320.5	MATTOON		SANDSTONE	4.5	229.5
316.0	MATTOON		GRAY SHALE	7.0	234.0
309.0	MATTOON		SANDSTONE	4.0	241.0
305.0	MATTOON		GRAY SHALE	2.0	245.0
303.0	MATTOON		SANDSTONE	7.0	247.0
296.0	MATTOON	TEUTOPOLIS	BLACK SHALE	3.0	254.0
293.0	MATTOON		GRAY SHALE	3.0	257.0
290.0	MATTOON		SHALE	199.0	260.0
91.0	MATTOON		SANDSTONE	1.0	459.0
90.0	MATTOON		GRAY SHALE	16.0	460.0
74.0	MATTOON		SANDSTONE	4.0	476.0
70.0	MATTOON		GRAY SHALE	61.5	480.0
8.5	MATTOON		SANDSTONE/SHALE	8.5	541.5
0.0	MATTOON		GRAY SHALE	5.0	550.0
-5.0	MATTOON		LIMESTONE	1.0	555.0
-6.0	MATTOON		SANDSTONE	14.0	556.0
-20.0	MATTOON		GRAY SHALE	19.0	570.0
-39.0	MATTOON		BLACK SHALE & CLAY	2.0	589.0
-41.0	MATTOON		GRAY SHALE	29.0	591.0
-70.0	MATTOON		SANDSTONE	6.0	620.0
-76.0	MATTOON		GRAY SHALE	32.0	626.0
-108.0	MATTOON		COAL	1.0	658.0
-109.0	MATTOON		SANDSTONE	1.0	659.0
-110.0	MATTOON		GRAY SHALE	14.0	660.0

-124.0	BOND		SANDSTONE/LIMESTONE	1.5	674.0	APPROXIMATE TOP OF BOND FORMATION
-125.5	BOND		GRAY SHALE	1.5	675.5	
-127.0	BOND		BLACK SHALE	2.0	677.0	
-129.0	BOND		GRAY SHALE	9.0	679.0	
-138.0	BOND		COAL	1.0	688.0	
-139.0	BOND		UNDERCLAY	1.5	689.0	
-140.5	BOND		GRAY SHALE	46.5	690.5	
-187.0	BOND		BLACK SHALE	1.3	737.0	
-188.3	BOND		GRAY SHALE	10.2	738.3	
-198.5	BOND		LIMESTONE	0.5	748.5	
-199.0	BOND		GRAY SHALE	25.0	749.0	
-224.0	BOND		COAL	2.0	774.0	
-226.0	BOND		GRAY SHALE	9.0	776.0	
-235.0	BOND		SANDSTONE	3.0	785.0	
-238.0	BOND		GRAY SHALE	35.5	788.0	
-273.5	BOND	CARTHAGE	LIMESTONE	3.5	823.5	
-277.0	MODESTO	NEW HAVEN	DARK SHALE	1.5	827.0	
-278.5	MODESTO	NEW HAVEN	BLACK SHALE	0.5	828.5	1
-279.0	MODESTO		GRAY SHALE	89.0	829.0	#8 HORIZON AT 884'- 888'
-368.0	MODESTO		SHALE & SANDSTONE	6.0	918.0	
-374.0	MODESTO		GRAY SHALE	50.0	924.0	
-424.0	MODESTO		SANDSTONE	4.0	974.0	
-428.0	MODESTO		SANDSTONE/SHALE	35.0	978.0	
-463.0	MODESTO		SANDSTONE	11.0	1013.0	
-474.0	MODESTO		SHALE & SANDSTONE	21.0	1024.0	
-495.0	MODESTO		SHALE	18.0	1045.0	
-513.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	1063.0	
-522.0	MODESTO		GRAY SHALE	76.3	1072.0	
-598.3	MODESTO		LIMESTONE W/ SHALE	7.7	1148.3	
-606.0	MODESTO		GRAY SHALE	10.0	1156.0	
-616.0	CARBONDALE	DANVILLE	COAL	2.5	1166.0	
-618.5	CARBONDALE		GRAY SHALE	31.5	1168.5	
-650.0	CARBONDALE		GRAY SHALE	3.5	1200.0	CORE #1 1200-1209.5'
-653.5	CARBONDALE	CONANT	LIMESTONE	1.7	1203.5	
-655.2	CARBONDALE	JAMESTOWN	COAL	3.1	1205.2	
-658.2	CARBONDALE		UNDERCLAY	0.8	1208.2	
-659.0	CARBONDALE	BRERETON	LIMESTONE	0.5	1209.0	
-659.5	CARBONDALE	BRERETON	LIMESTONE	7.0	1209.5	CORE #2 1209.5-1219
-666.5	CARBONDALE	ANNA	BLACK SHALE	1.5	1216.5	
-668.0	CARBONDALE	HERRIN	COAL	0.8	1218.0	
-668.8	CARBONDALE	HERRIN	CORE LOSS	0.2	1218.8	CORE LOSS
-669.0	CARBONDALE	HERRIN	COAL	5.6	1219.0	CORE #3 1219-1228.5
-674.6	CARBONDALE		UNDERCLAY	1.4	1224.6	
-676.0	CARBONDALE		LIMESTONE	1.1	1226.0	
-677.1	CARBONDALE		UNDERCLAY	1.4	1227.1	
-678.5	CARBONDALE		UNDERCLAY & LIMESTONE	4.0	1228.5	CORE #4 1228.5-1238'
-682.5	CARBONDALE		GRAY SHALE	5.5	1232.5	

-688.0	CARBONDALE		GRAY SHALE	5.3	1238.0	CORE #5 1238-1247.5
-693.3	CARBONDALE		LIMESTONE	0.2	1243.3	
-693.4	CARBONDALE	BRIAR HILL	COAL	2.2	1243.4	
-695.6	CARBONDALE		DARK SHALE & BLACK SHALE	1.8	1245.6	
-697.3	CARBONDALE		CORE LOSS	0.2	1247.3	CORE LOSS
-697.5	CARBONDALE		BLACK SHALE	3.0	1247.5	
-700.5	CARBONDALE	ST. DAVID	LIMESTONE	0.8	1250.5	CORE #6 1247.5-1257
-701.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.1	1251.3	
-702.4	CARBONDALE	SPRINGFIELD	COAL	3.9	1252.4	
-706.2	CARBONDALE		UNDERCLAY	0.8	1256.2	
-707.0	CARBONDALE		UNDERCLAY	3.2	1257.0	CORE #7 1257-1265.5
-710.2	CARBONDALE		SILTSTONE	3.8	1260.2	
-714.0	CARBONDALE		SANDSTONE	1.5	1264.0	
-715.5	CARBONDALE		SANDSTONE/SHALE	5.5	1265.5	CORE #8 1265.5-1271
-721.0	CARBONDALE		SANDSTONE	4.0	1271.0	
-725.0	CARBONDALE		GRAY SHALE	25.0	1275.0	
-750.0	CARBONDALE	EXCELLO	DARK SHALE & CLAYSTONE	34.0	1300.0	
-784.0	CARBONDALE		GRAY SHALE	41.0	1334.0	
-825.0	CARBONDALE		SANDSTONE	9.0	1375.0	
-834.0	CARBONDALE		GRAY SHALE	26.5	1384.0	
-860.5	CARBONDALE	SURVANT - UPPER	COAL	1.0	1410.5	
-861.5	CARBONDALE		UNDERCLAY	1.5	1411.5	
-863.0	CARBONDALE		GRAY SHALE	28.0	1413.0	
-891.0	CARBONDALE	SURVANT - LOWER	COAL	1.0	1441.0	OFF RESIST. & DENSITY LOG, NOT DRILL LOG
-892.0	CARBONDALE		GRAY SHALE	32.5	1442.0	
-924.5	CARBONDALE	COLCHESTER	COAL	2.2	1474.5	
-926.7	SPOON		GRAY SHALE	2.3	1476.7	
-929.0	SPOON		LIMESTONE	1.5	1479.0	
-930.5	SPOON		GRAY SHALE	13.5	1480.5	
-944.0	SPOON	SEELYVILLE	COAL	0.5	1494.0	
-944.5	SPOON	SEELYVILLE	COAL	2.4	1494.5	CORE #9 1494.5-1502.5
-946.9	SPOON	SEELYVILLE	DARK SHALE	0.4	1496.9	
-947.3	SPOON	SEELYVILLE	COAL	4.2	1497.3	
-951.5	SPOON		UNDERCLAY	1.0	1501.5	
-952.5	SPOON		GRAY SHALE	22.5	1502.5	

MAPID: 07900438000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 10 QUARTERS/FOOTAGES: NE NE NE
QUADRANGLE: NEWTON LONGITUDE: -88.189608 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.979025 DATE COLLECTED:
SURFACE ELEVATION (FT.): 564.0 LOGGED (FT.): 1452.0 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	BOND	CARTHAGE	LIMESTONE	4.0	801.0
-403.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	967.0
-564.0	CARBONDALE	DANVILLE	COAL	3.0	1128.0
-624.0	CARBONDALE	HERRIN	COAL	5.5	1188.0
-656.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1220.0
-729.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1293.0
-863.0	CARBONDALE	COLCHESTER	COAL	-	1427.0
-882.0	SPOON	SEELYVILLE	COAL	6.0	1446.0

MAPID: 07901108000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 10 QUARTERS/FOOTAGES: SE NE NE
QUADRANGLE: NEWTON LONGITUDE: -88.189599 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.977197 DATE COLLECTED:
SURFACE ELEVATION (FT.): 568.0 LOGGED (FT.): 1438.0 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
-225.0	BOND	CARTHAGE	LIMESTONE	6.0	793.0
-394.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	962.0
-552.0	CARBONDALE	DANVILLE	COAL	2.5	1120.0
-612.0	CARBONDALE	HERRIN	COAL	5.5	1180.0
-645.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1213.0
-717.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1285.0
-837.0	CARBONDALE	COLCHESTER	COAL	-	1405.0
-864.0	SPOON	SEELYVILLE	COAL	6.0	1432.0

MAPID: 07901602000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 10 QUARTERS/FOOTAGES: NW NE NE

QUADRANGLE: NEWTON LONGITUDE: -88.191967 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.979002 DATE COLLECTED:

SURFACE ELEVATION (FT.): 570.0 LOGGED (FT.): 1460.0 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
-243.0	BOND	CARTHAGE	LIMESTONE	5.0	813.0
-409.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	979.0
-570.0	CARBONDALE	DANVILLE	COAL	3.0	1140.0
-632.0	CARBONDALE	HERRIN	COAL	6.0	1202.0
-664.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1234.0
-741.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1311.0
-865.0	CARBONDALE	COLCHESTER	COAL	-	1435.0
-883.0	SPOON	SEELYVILLE	COAL	7.0	1453.0

MAPID: 07900376000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 11 QUARTERS/FOOTAGES: SE SE NW

QUADRANGLE: NEWTON LONGITUDE: -88.180242 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.97364 DATE COLLECTED:

SURFACE ELEVATION (FT.): 550.0 LOGGED (FT.): 1271.0 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
-231.0	BOND	CARTHAGE	LIMESTONE	4.0	781.0
-395.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	945.0
-557.0	CARBONDALE	DANVILLE	COAL	1.5	1107.0
-618.0	CARBONDALE	HERRIN	COAL	5.0	1168.0
-650.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1200.0
-721.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1271.0

MAPID: 07922780000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 11 QUARTERS/FOOTAGES: 2565' N line, 50' W line

QUADRANGLE: NEWTON LONGITUDE: -88.188229 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.972877 DATE COLLECTED: 11 / 17 / 1978

SURFACE ELEVATION (FT.): 550.0 LOGGED (FT.): 1225.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. IG-78-24 WELL TYPE: Coal Test

COMMENT: GAMMA, DENSITY, RESIST, & DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.0			UNCONSOLIDATED	16.0	0.0	
534.0	MATTOON		GRAY SHALE	29.0	16.0	
505.0	MATTOON		SANDSTONE	1.0	45.0	
504.0	MATTOON		GRAY SHALE	30.0	46.0	
474.0	MATTOON	FALMOUTH	BLACK SHALE	2.0	76.0	
472.0	MATTOON		GRAY SHALE	38.5	78.0	
433.5	MATTOON	TROWBRIDGE	COAL	2.0	116.5	
431.5	MATTOON		SHALE & SANDSTONE	12.5	118.5	
419.0	MATTOON	INGRAHAM	BLACK SHALE	3.0	131.0	
416.0	MATTOON		GRAY SHALE	22.5	134.0	
393.5	MATTOON		SANDSTONE	4.5	156.5	
389.0	MATTOON		GRAY SHALE	29.0	161.0	
360.0	MATTOON		SHALE & SANDSTONE	19.0	190.0	
341.0	MATTOON		SANDSTONE	13.0	209.0	
328.0	MATTOON	TEUTOPOLIS	BLACK SHALE	4.0	222.0	
324.0	MATTOON		SANDSTONE/SHALE	88.0	226.0	
236.0	MATTOON		GRAY SHALE	96.0	314.0	
140.0	MATTOON		COAL WITH SHALE	2.0	410.0	
138.0	MATTOON		GRAY SHALE	77.0	412.0	
61.0	MATTOON		CALCAREOUS SHALE	31.5	489.0	
29.5	MATTOON		LIMESTONE	1.5	520.5	
28.0	MATTOON		SANDSTONE	18.0	522.0	
10.0	MATTOON		GRAY SHALE	20.0	540.0	(BOTTOM OF MATTOON)
-10.0	BOND		CALCAREOUS SHALE	148.0	560.0	MILLERSVILLE INTERVAL (TOP OF BOND)
-158.0	BOND		GRAY SHALE	82.0	708.0	
-240.0	BOND	CARTHAGE	LIMESTONE	3.0	790.0	
-243.0	MODESTO	NEW HAVEN	BLACK SHALE	1.0	793.0	
-244.0	MODESTO		GRAY SHALE	164.0	794.0	
-408.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.4	958.0	
-420.4	MODESTO		GRAY SHALE	143.6	970.4	
-564.0	CARBONDALE	DANVILLE	COAL	2.5	1114.0	REST TAKEN FROM RES. LOG 4' BEL. DRILL LOG
-566.5	CARBONDALE		GRAY SHALE	8.5	1116.5	
-575.0	CARBONDALE		LIMESTONE AND SANDSTONE	3.0	1125.0	AND SOME DOLOMITS
-578.0	CARBONDALE		SANDSTONE	2.0	1128.0	
-580.0	CARBONDALE		GRAY SHALE	8.0	1130.0	W/DOLO.
-588.0	CARBONDALE		GRAY SHALE	25.0	1138.0	
-613.0	CARBONDALE	CONANT	LIMESTONE	1.0	1163.0	
-614.0	CARBONDALE	JAMESTOWN	COAL	3.0	1164.0	

-617.0	CARBONDALE		GRAY SHALE	1.5	1167.0	
-618.5	CARBONDALE	BRERETON	LIMESTONE	5.7	1168.5	
-624.2	CARBONDALE	ANNA	BLACK SHALE	3.6	1174.2	
-627.8	CARBONDALE	HERRIN	COAL	5.7	1177.8	
-633.5	CARBONDALE		GRAY SHALE	14.0	1183.5	
-647.5	CARBONDALE	BRIAR HILL	COAL	3.0	1197.5	
-650.5	CARBONDALE		GRAY SHALE	4.2	1200.5	
-654.7	CARBONDALE	ST. DAVID	LIMESTONE	0.8	1204.7	UNCERTAIN CORRELATION
-655.5	CARBONDALE		CALCAREOUS SHALE	1.5	1205.5	LIMY SHALE
-657.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1207.0	
-661.0	CARBONDALE		GRAY SHALE	14.0	1211.0	

MAPID: 07900282000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 6N 9E **SECTION:** 12 **QUARTERS/FOOTAGES:** NW SW SE
QUADRANGLE: NEWTON **LONGITUDE:** -88.159405 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.968065 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 518.0 **LOGGED (FT.):** 1341.0 **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	BOND	CARTHAGE	LIMESTONE	5.0	711.0
-358.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	876.0
-524.0	CARBONDALE	DANVILLE	COAL	2.5	1042.0
-568.0	CARBONDALE	HERRIN	COAL	5.0	1086.0
-604.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1122.0
-668.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1186.0
-800.0	CARBONDALE	COLCHESTER	COAL	-	1318.0
-818.0	SPOON	SEELYVILLE	COAL	5.0	1336.0

MAPID: 07923173000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 12 QUARTERS/FOOTAGES: 1173' N line, 51' E line

QUADRANGLE: NEWTON LONGITUDE: -88.151615 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.976763 DATE COLLECTED: 1 / 7 / 1980

SURFACE ELEVATION (FT.): 530.0 LOGGED (FT.): 1412.0 LOG TYPE: Drillers Log

SOURCE: MOBIL OIL CORP. IG7912-31C WELL TYPE: Coal Test

COMMENT: SP, RESIST, LOG, CORE DESC, & DRILL. LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
530.0			UNCONSOLIDATED	38.0	0.0	
492.0	MATTOON		GRAY SHALE	26.0	38.0	
466.0	MATTOON		BLACK SHALE & CLAY	2.0	64.0	CL=COAL
464.0	MATTOON		GRAY SHALE	11.0	66.0	
453.0	MATTOON		LIMESTONE	1.0	77.0	
452.0	MATTOON		GRAY SHALE	3.0	78.0	
449.0	MATTOON		BLACK SHALE	5.0	81.0	
444.0	MATTOON		GRAY SHALE	51.0	86.0	
393.0	MATTOON		LIMESTONE	2.0	137.0	
391.0	MATTOON		GRAY SHALE	19.0	139.0	
372.0	MATTOON		LIMESTONE	3.5	158.0	
368.5	MATTOON		GRAY SHALE	3.5	161.5	
365.0	MATTOON		LIMESTONE	2.5	165.0	
362.5	MATTOON		GRAY SHALE	2.5	167.5	
360.0	MATTOON		BLACK SHALE	5.0	170.0	
355.0	MATTOON		SHALE	47.0	175.0	
308.0	MATTOON		SANDSTONE	18.0	222.0	
290.0	MATTOON		GRAY SHALE	10.0	240.0	
280.0	MATTOON		LIMESTONE	1.0	250.0	
279.0	MATTOON		BLACK SHALE & CLAY	5.0	251.0	
274.0	MATTOON		GRAY SHALE	48.0	256.0	
226.0	MATTOON		LIMESTONE	1.0	304.0	
225.0	MATTOON		GRAY SHALE	12.0	305.0	
213.0	MATTOON		LIMESTONE	1.0	317.0	
212.0	MATTOON		GRAY SHALE	23.0	318.0	
189.0	MATTOON		BLACK SHALE	3.0	341.0	
186.0	MATTOON		GRAY SHALE	21.0	344.0	
165.0	MATTOON		LIMESTONE	1.0	365.0	
164.0	MATTOON		GRAY SHALE	93.5	366.0	
70.5	MATTOON		LIMESTONE	2.0	459.5	
68.5	MATTOON		GRAY SHALE	18.5	461.5	
50.0	MATTOON		SANDSTONE	15.0	480.0	
35.0	MATTOON		GRAY SHALE	7.0	495.0	
28.0	MATTOON		SANDSTONE	5.0	502.0	
23.0	MATTOON		LIMESTONE	2.0	507.0	
21.0	MATTOON		SANDSTONE	11.0	509.0	
10.0	MATTOON		GRAY SHALE	6.0	520.0	
4.0	MATTOON		SANDSTONE	5.0	526.0	
-1.0	MATTOON		GRAY SHALE	16.0	531.0	

-17.0	MATTOON		LIMESTONE	2.0	547.0	
-19.0	MATTOON		GRAY SHALE	23.0	549.0	
-42.0	BOND	MILLERSVILLE	LIMESTONE	4.0	572.0	
-46.0	BOND		BLACK SHALE	4.0	576.0	
-50.0	BOND		GRAY SHALE	106.0	580.0	
-156.0	BOND		SANDSTONE	10.0	686.0	
-166.0	BOND		GRAY SHALE	21.0	696.0	
-187.0	BOND	CARTHAGE	LIMESTONE	3.5	717.0	
-190.5	MODESTO		BLACK SHALE	1.5	720.5	
-192.0	MODESTO		GRAY SHALE	147.5	722.0	
-339.5	MODESTO		LIMESTONE	2.5	869.5	
-342.0	MODESTO		GRAY SHALE	6.5	872.0	
-348.5	MODESTO	WEST FRANKLIN	LIMESTONE	6.5	878.5	
-355.0	MODESTO		GRAY SHALE	1.0	885.0	
-356.0	MODESTO		LIMESTONE	7.0	886.0	
-363.0	MODESTO		SANDSTONE	21.0	893.0	
-384.0	MODESTO		LIMESTONE	2.0	914.0	
-386.0	MODESTO		GRAY SHALE	2.0	916.0	
-388.0	MODESTO		SANDSTONE	6.0	918.0	BUSSERON SS.
-394.0	MODESTO		GRAY SHALE	115.0	924.0	
-509.0	CARBONDALE	DANVILLE	COAL	2.0	1039.0	
-511.0	CARBONDALE		GRAY SHALE	8.0	1041.0	
-519.0	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	1049.0	
-524.0	CARBONDALE		GRAY SHALE	25.5	1054.0	
-549.5	CARBONDALE	CONANT	LIMESTONE	2.5	1079.5	
-552.0	CARBONDALE	JAMESTOWN	COAL	0.5	1082.0	CORE #1 1082-1097'
-552.5	CARBONDALE	JAMESTOWN	COAL	2.3	1082.5	LOST CORE, PROBABLY COAL
-554.8	CARBONDALE	ANNA	BLACK SHALE	3.3	1084.8	
-558.1	CARBONDALE	HERRIN	COAL	6.0	1088.1	LOST CORE, LITHOLOGY FROM E-LOG
-564.1	CARBONDALE		BLACK SHALE	0.3	1094.1	
-564.4	CARBONDALE		UNDERCLAY	0.6	1094.4	
-565.0	CARBONDALE		SHALE	0.5	1095.0	
-565.5	CARBONDALE		SANDSTONE & BLACK SHALE	1.5	1095.5	
-567.0	CARBONDALE		SANDSTONE	1.0	1097.0	
-568.0	CARBONDALE		LIMESTONE	2.0	1098.0	
-570.0	CARBONDALE		GRAY SHALE	17.5	1100.0	
-587.5	CARBONDALE	BRIAR HILL	COAL	2.5	1117.5	
-590.0	CARBONDALE		GRAY SHALE	4.5	1120.0	
-594.5	CARBONDALE	ST. DAVID	LIMESTONE	4.0	1124.5	UNCERTAIN CORRELATION
-598.5	CARBONDALE		GRAY SHALE	0.5	1128.5	TURNER MINE SH
-599.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1129.0	
-603.5	CARBONDALE		UNDERCLAY	2.5	1133.5	
-606.0	CARBONDALE		SANDSTONE	2.0	1136.0	
-608.0	CARBONDALE		GRAY SHALE	57.5	1138.0	
-665.5	CARBONDALE	HOUCHIN CREEK	BLACK SHALE & CLAY	5.5	1195.5	
-671.0	CARBONDALE		GRAY SHALE	80.5	1201.0	
-751.5	CARBONDALE	SURVANT - UPPER	COAL	1.0	1281.5	

-752.5	CARBONDALE		GRAY SHALE	24.0	1282.5	
-776.5	CARBONDALE	SURVANT - LOWER	COAL	1.5	1306.5	
-778.0	CARBONDALE		GRAY SHALE	4.0	1308.0	
-782.0	CARBONDALE		LIMESTONE	0.5	1312.0	
-782.5	CARBONDALE		SANDSTONE	7.5	1312.5	
-790.0	CARBONDALE		GRAY SHALE	8.0	1320.0	
-798.0	CARBONDALE	COLCHESTER	BLACK SHALE & CLAY	2.0	1328.0	
-800.0	SPOON		GRAY SHALE	15.0	1330.0	
-815.0	SPOON		GRAY SHALE	1.7	1345.0	CORE #2 1345-1359'
-816.7	SPOON	SEELYVILLE	COAL	2.8	1346.7	
-819.5	SPOON	SEELYVILLE	BLACK SHALE	0.2	1349.5	
-819.7	SPOON	SEELYVILLE	COAL	3.7	1349.7	
-823.4	SPOON		SANDSTONE	2.1	1353.4	
-825.5	SPOON		SANDSTONE/UNDERCLAY	3.5	1355.5	
-829.0	SPOON		GRAY SHALE	13.0	1359.0	
-842.0	SPOON		SANDSTONE	2.0	1372.0	
-844.0	SPOON		GRAY SHALE	18.0	1374.0	
-862.0	SPOON		LIMESTONE	0.5	1392.0	
-862.5	SPOON		GRAY SHALE	3.0	1392.5	
-865.5	SPOON		LIMESTONE	0.5	1395.5	
-866.0	SPOON		COAL	1.0	1396.0	
-867.0	SPOON		GRAY SHALE	13.0	1397.0	
-880.0	SPOON		SANDSTONE	2.0	1410.0	

MAPID: 07900223000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 6N 9E **SECTION:** 13 **QUARTERS/FOOTAGES:** NW SW NE
QUADRANGLE: NEWTON **LONGITUDE:** -88.159339 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.960709 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 528.0 **LOGGED (FT.):** 1384.0 **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	BOND	CARTHAGE	LIMESTONE	6.0	738.0
-374.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	902.0
-542.0	CARBONDALE	DANVILLE	COAL	-	1070.0
-591.0	CARBONDALE	HERRIN	COAL	5.0	1119.0
-626.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1154.0
-693.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1221.0
-830.0	CARBONDALE	COLCHESTER	COAL	-	1358.0
-851.0	SPOON	SEELYVILLE	COAL	5.0	1379.0

MAPID: 07923157000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 13 QUARTERS/FOOTAGES: 1038' S line, 210' E line

QUADRANGLE: NEWTON LONGITUDE: -88.152017 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.95357 DATE COLLECTED: 10 / 25 / 1979

SURFACE ELEVATION (FT.): 510.0 LOGGED (FT.): 1130.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. IG7913-18C WELL TYPE: Coal Test

COMMENT: GAMMA, DENS, RESIST, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
510.0			UNCONSOLIDATED	65.0	0.0
445.0	MATTOON		GRAY SHALE	12.5	65.0
432.5	MATTOON		LIMESTONE	3.5	77.5
429.0	MATTOON		GRAY SHALE	31.0	81.0
398.0	MATTOON		LIMESTONE	4.0	112.0
394.0	MATTOON		GRAY SHALE	11.0	116.0
383.0	MATTOON		COAL	1.0	127.0
382.0	MATTOON		GRAY SHALE	2.0	128.0
380.0	MATTOON		LIMESTONE	1.0	130.0
379.0	MATTOON		GRAY SHALE	48.5	131.0
330.5	MATTOON		LIMESTONE	2.0	179.5
328.5	MATTOON		SANDSTONE	14.5	181.5
314.0	MATTOON		LIMESTONE	1.5	196.0
312.5	MATTOON		SANDSTONE	28.5	197.5
284.0	MATTOON		GRAY SHALE	46.0	226.0
238.0	MATTOON		SANDSTONE	14.0	272.0
224.0	MATTOON		GRAY SHALE	22.0	286.0
202.0	MATTOON		SANDSTONE	50.0	308.0
152.0	MATTOON		GRAY SHALE	59.0	358.0
93.0	MATTOON		BLACK SHALE	1.0	417.0
92.0	MATTOON		GRAY SHALE	17.0	418.0
75.0	MATTOON		LIMESTONE	2.5	435.0
72.5	MATTOON		GRAY SHALE	30.5	437.5
42.0	MATTOON		LIMESTONE	2.0	468.0
40.0	MATTOON		GRAY SHALE	6.5	470.0
33.5	MATTOON		COAL	1.0	476.5
32.5	MATTOON		GRAY SHALE	3.5	477.5
29.0	MATTOON		LIMESTONE	4.0	481.0
25.0	MATTOON		SANDSTONE	39.0	485.0
-14.0	MATTOON		GRAY SHALE	28.0	524.0
-42.0	BOND	MILLERSVILLE	LIMESTONE	4.0	552.0
-46.0	BOND		DARK SHALE	1.0	556.0
-47.0	BOND		LIMESTONE	0.8	557.0
-47.8	BOND		DARK SHALE	2.2	557.8
-50.0	BOND		GRAY SHALE	49.5	560.0
-99.5	BOND		LIMESTONE	1.0	609.5
-100.5	BOND		COAL	2.5	610.5
-103.0	BOND		GRAY SHALE	53.0	613.0
-156.0	BOND		LIMESTONE	1.5	666.0

-157.5	BOND		SANDSTONE	32.5	667.5	
-190.0	BOND	CARTHAGE	LIMESTONE	5.0	700.0	
-195.0	MODESTO		SANDSTONE/SHALE	15.0	705.0	
-210.0	MODESTO		GRAY SHALE	8.0	720.0	
-218.0	MODESTO		LIMESTONE	1.0	728.0	
-219.0	MODESTO		SANDSTONE/SHALE	11.0	729.0	
-230.0	MODESTO		GRAY SHALE	26.0	740.0	
-256.0	MODESTO		COAL	2.0	766.0	
-258.0	MODESTO		GRAY SHALE	9.0	768.0	
-267.0	MODESTO		LIMESTONE	3.0	777.0	
-270.0	MODESTO		GRAY SHALE	64.0	780.0	
-334.0	MODESTO		COAL	1.0	844.0	
-335.0	MODESTO		GRAY SHALE	11.0	845.0	
-346.0	MODESTO		SANDSTONE	3.5	856.0	
-349.5	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	859.5	
-356.5	MODESTO	WEST FRANKLIN	GRAY SHALE	1.5	866.5	
-358.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.5	868.0	
-365.5	MODESTO		GRAY SHALE	132.5	875.5	
-498.0	CARBONDALE	DANVILLE	COAL	3.0	1008.0	
-501.0	CARBONDALE		UNDERCLAY	3.0	1011.0	
-504.0	CARBONDALE		GRAY SHALE	39.0	1014.0	
-543.0	CARBONDALE	CONANT	LIMESTONE	0.8	1053.0	
-543.8	CARBONDALE	JAMESTOWN	COAL	0.5	1053.8	AND "SMUT"
-544.3	CARBONDALE	JAMESTOWN	COAL	2.8	1054.3	CORE #1 1054.3-1064.5
-547.1	CARBONDALE		UNDERCLAY	0.3	1057.1	
-547.4	CARBONDALE	BRERETON	LIMESTONE	6.8	1057.4	
-554.2	CARBONDALE	BRERETON	CORE LOSS	0.3	1064.2	
-554.5	CARBONDALE	BRERETON	LIMESTONE	3.7	1064.5	CORE #2 1064.5-1075
-558.2	CARBONDALE	HERRIN	COAL	5.7	1068.2	
-563.9	CARBONDALE		CORE LOSS	1.2	1073.9	
-565.0	CARBONDALE		GRAY SHALE	3.0	1075.0	
-568.0	CARBONDALE		LIMESTONE	6.0	1078.0	
-574.0	CARBONDALE		GRAY SHALE	15.5	1084.0	
-589.5	CARBONDALE	BRIAR HILL	COAL	2.5	1099.5	
-592.0	CARBONDALE		GRAY SHALE	5.0	1102.0	
-597.0	CARBONDALE		LIMESTONE	1.0	1107.0	
-598.0	CARBONDALE		BLACK SHALE	0.5	1108.0	
-598.5	CARBONDALE	ST. DAVID	LIMESTONE	0.5	1108.5	CORE #3 1108.5-1115.5
-599.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	1109.0	
-599.7	CARBONDALE	SPRINGFIELD	COAL	4.1	1109.7	
-603.8	CARBONDALE		UNDERCLAY	0.7	1113.8	
-604.4	CARBONDALE		CORE LOSS	1.1	1114.4	
-605.5	CARBONDALE		GRAY SHALE	1.5	1115.5	
-607.0	CARBONDALE		LIMESTONE	1.5	1117.0	
-608.5	CARBONDALE		SHALE	11.5	1118.5	

MAPID: 07900300000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 14 QUARTERS/FOOTAGES: NE NE NE
QUADRANGLE: NEWTON LONGITUDE: -88.170784 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.964452 DATE COLLECTED:
SURFACE ELEVATION (FT.): 532.0 LOGGED (FT.): 1400.0 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
-225.0	BOND	CARTHAGE	LIMESTONE	5.0	757.0
-390.0	MODESTO	WEST FRANKLIN	LIMESTONE	20.0	922.0
-560.0	CARBONDALE	DANVILLE	COAL	3.0	1092.0
-604.0	CARBONDALE	HERRIN	COAL	6.0	1136.0
-639.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1171.0
-708.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1240.0
-848.0	CARBONDALE	COLCHESTER	COAL	-	1380.0
-863.0	SPOON	SEELYVILLE	COAL	5.0	1395.0

MAPID: 07900203000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 15 QUARTERS/FOOTAGES: 661' S line, 330' E line of NW SW
QUADRANGLE: NEWTON LONGITUDE: -88.20353 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.955796 DATE COLLECTED:
SURFACE ELEVATION (FT.): 556.0 LOGGED (FT.): 1496.0 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
-291.0	BOND	CARTHAGE	LIMESTONE	6.0	847.0
-430.0	MODESTO	TRIVOLI	SANDSTONE	54.0	986.0
-608.0	CARBONDALE	DANVILLE	COAL	2.0	1164.0
-671.0	CARBONDALE	HERRIN	COAL	5.5	1227.0
-704.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1260.0
-784.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1340.0
-923.0	CARBONDALE	COLCHESTER	COAL	-	1479.0
-932.0	SPOON	SEELYVILLE	COAL	8.0	1488.0

MAPID: 07901353000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 6N 9E

SECTION: 15

QUARTERS/FOOTAGES: SW NW NE

QUADRANGLE: NEWTON

LONGITUDE: -88.196587

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.962435

DATE COLLECTED:

SURFACE ELEVATION (FT.): 567.0

LOGGED (FT.): 1505.0

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
-250.0	BOND	CARTHAGE	LIMESTONE	4.0	817.0
-409.0	MODESTO	TRIVOLI	SANDSTONE	106.0	976.0
-515.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	1082.0
-602.0	CARBONDALE	DANVILLE	COAL	2.0	1169.0
-663.0	CARBONDALE	HERRIN	COAL	6.0	1230.0
-698.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1265.0
-780.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1347.0
-914.0	CARBONDALE	COLCHESTER	COAL	-	1481.0
-930.0	SPOON	SEELYVILLE	COAL	8.0	1497.0

MAPID: 07923174000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 15 QUARTERS/FOOTAGES: 1341' S line, 315' E line
 QUADRANGLE: NEWTON LONGITUDE: -88.189482 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.954244 DATE COLLECTED: 1 / 15 / 1980
 SURFACE ELEVATION (FT.): 565.0 LOGGED (FT.): 1500.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS, RESIST, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
565.0			UNCONSOLIDATED	8.0	0.0	
557.0	MATTOON		SANDSTONE	1.0	8.0	
556.0	MATTOON		SILTSTONE	8.0	9.0	
548.0	MATTOON		SANDSTONE	23.0	17.0	
525.0	MATTOON		GRAY SHALE	16.0	40.0	
509.0	MATTOON		SANDSTONE	4.0	56.0	
505.0	MATTOON		GRAY SHALE	29.0	60.0	
476.0	MATTOON		BLACK SHALE	3.0	89.0	FALMOUTH SH
473.0	MATTOON		GRAY SHALE	5.0	92.0	
468.0	MATTOON		LIMESTONE	0.5	97.0	
467.5	MATTOON		GRAY SHALE	34.5	97.5	
433.0	MATTOON	TROWBRIDGE	COAL	2.5	132.0	OFF GAMMA
430.5	MATTOON		GRAY SHALE	7.5	134.5	OFF GAMMA
423.0	MATTOON	BOGOTA	LIMESTONE	2.5	142.0	OFF GAMMA
420.5	MATTOON	INGRAHAM	BLACK SHALE	4.5	144.5	OFF GAMMA
416.0	MATTOON		GRAY SHALE	27.0	149.0	OFF GAMMA
389.0	MATTOON		LIMESTONE	4.0	176.0	
385.0	MATTOON		GRAY SHALE	28.0	180.0	
357.0	MATTOON		SANDSTONE	12.0	208.0	
345.0	MATTOON		GRAY SHALE	19.0	220.0	
326.0	MATTOON	TEUTOPOLIS	BLACK SHALE	4.0	239.0	OFF GAMMA
322.0	MATTOON		GRAY SHALE	57.0	243.0	
265.0	MATTOON		SANDSTONE/SHALE	14.0	300.0	
251.0	MATTOON		SANDSTONE	43.0	314.0	
208.0	MATTOON		GRAY SHALE	22.0	357.0	
186.0	MATTOON		SANDSTONE	8.0	379.0	
178.0	MATTOON		GRAY SHALE	48.5	387.0	
129.5	MATTOON		SANDSTONE	9.5	435.5	
120.0	MATTOON		SANDSTONE/SHALE	15.0	445.0	
105.0	MATTOON		GRAY SHALE	65.0	460.0	
40.0	MATTOON		SANDSTONE	6.0	525.0	
34.0	MATTOON		GRAY SHALE	31.0	531.0	
3.0	MATTOON		COAL	1.0	562.0	
2.0	MATTOON		GRAY SHALE	20.0	563.0	
-18.0	MATTOON		COAL	1.0	583.0	
-19.0	MATTOON		UNDERCLAY	4.0	584.0	
-23.0	MATTOON		SANDSTONE	10.0	588.0	
-33.0	MATTOON		GRAY SHALE	12.0	598.0	
-45.0	MATTOON		SHALE & SANDSTONE	10.0	610.0	

-55.0	MATTOON		GRAY SHALE	8.0	620.0	
-63.0	BOND	MILLERSVILLE	LIMESTONE	1.5	628.0	
-64.5	BOND		GRAY SHALE	14.5	629.5	
-79.0	BOND		COAL	2.0	644.0	
-81.0	BOND		GRAY SHALE	28.0	646.0	
-109.0	BOND		COAL	2.0	674.0	
-111.0	BOND		GRAY SHALE	45.5	676.0	
-156.5	BOND		LIMESTONE	0.5	721.5	
-157.0	BOND		GRAY SHALE	2.0	722.0	
-159.0	BOND		COAL	2.0	724.0	
-161.0	BOND		GRAY SHALE	33.5	726.0	
-194.5	BOND		COAL	1.0	759.5	
-195.5	BOND		GRAY SHALE	43.5	760.5	
-239.0	BOND	CARTHAGE	LIMESTONE	4.2	804.0	
-243.2	MODESTO		GRAY SHALE	1.8	808.2	
-245.0			BLACK SHALE	0.5	810.0	
-245.5	MODESTO		GRAY SHALE	70.5	810.5	
-316.0	MODESTO		SANDSTONE	29.0	881.0	
-345.0	MODESTO		GRAY SHALE	43.0	910.0	
-388.0	MODESTO	TRIVOLI	SANDSTONE	85.0	953.0	
-473.0	MODESTO		GRAY SHALE	124.0	1038.0	
-597.0	CARBONDALE	DANVILLE	COAL	2.5	1162.0	
-599.5	CARBONDALE		GRAY SHALE	33.5	1164.5	
-633.0	CARBONDALE	CONANT	LIMESTONE	1.0	1198.0	
-634.0	CARBONDALE	JAMESTOWN	COAL	4.0	1199.0	AVE. THICKNESS B/LOGS
-638.0	CARBONDALE		DARK SHALE	4.4	1203.0	
-642.4	CARBONDALE		LIMESTONE	5.6	1207.4	
-648.0	CARBONDALE	HERRIN	COAL	0.5	1213.0	
-648.5	CARBONDALE	HERRIN	COAL	2.5	1213.5	CORE #1 1213.5-1220.5
-651.0	CARBONDALE	HERRIN	CLAYSTONE & SHALE	0.4	1216.0	
-651.4	CARBONDALE	HERRIN	COAL	1.4	1216.4	
-652.8	CARBONDALE	HERRIN	PYRITE & SHALE	0.2	1217.8	
-653.0	CARBONDALE	HERRIN	COAL	0.8	1218.0	
-653.8	CARBONDALE		UNDERCLAY	1.7	1218.8	
-655.5	CARBONDALE		SHALE/UNDERCLAY	2.5	1220.5	
-658.0	CARBONDALE		GRAY SHALE	14.5	1223.0	
-672.5	CARBONDALE	BRIAR HILL	COAL	2.5	1237.5	
-675.0	CARBONDALE		DARK SHALE	4.5	1240.0	
-679.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	1244.5	
-680.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1245.0	
-684.0	CARBONDALE		UNDERCLAY	4.5	1249.0	
-688.5	CARBONDALE		GRAY SHALE	7.5	1253.5	
-696.0	CARBONDALE		SANDSTONE	22.0	1261.0	
-718.0	CARBONDALE		GRAY SHALE	39.0	1283.0	
-757.0	CARBONDALE	HANOVER	LIMESTONE	2.5	1322.0	
-759.5	CARBONDALE	EXCELLO	BLACK SHALE & CLAY	3.5	1324.5	
-763.0	CARBONDALE		GRAY SHALE	63.0	1328.0	
-826.0	CARBONDALE	SURVANT - UPPER	COAL	1.0	1391.0	

-827.0	CARBONDALE		GRAY SHALE	37.0	1392.0	
-864.0	CARBONDALE	SURVANT - LOWER	COAL	1.0	1429.0	
-865.0	CARBONDALE		UNDERCLAY	2.0	1430.0	
-867.0	CARBONDALE		SANDSTONE	2.0	1432.0	
-869.0	CARBONDALE		GRAY SHALE	25.7	1434.0	LOWER 2' IS MECCA QUARRY SH
-894.7	CARBONDALE	COLCHESTER	COAL	1.3	1459.7	
-896.0	SPOON		LIMESTONE	1.0	1461.0	
-897.0	SPOON		COAL	1.0	1462.0	
-898.0	SPOON		GRAY SHALE	7.5	1463.0	
-905.5	SPOON	SEELYVILLE	COAL	0.5	1470.5	
-906.0	SPOON	SEELYVILLE	COAL	1.9	1471.0	CORE #2 1471-1482
-907.9	SPOON	SEELYVILLE	GRAY SHALE	0.9	1472.9	
-908.8	SPOON	SEELYVILLE	COAL	1.7	1473.8	
-910.5	SPOON	SEELYVILLE	GRAY SHALE	0.5	1475.5	
-911.0	SPOON	SEELYVILLE	COAL	3.8	1476.0	
-914.8	SPOON		SILTSTONE	2.2	1479.8	? STS
-917.0	SPOON		SANDSTONE	4.0	1482.0	
-921.0	SPOON		GRAY SHALE	6.0	1486.0	
-927.0	SPOON		BLACK SHALE & CLAY	2.0	1492.0	
-929.0	SPOON		GRAY SHALE	6.0	1494.0	

MAPID: 07902276000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 6N 9E **SECTION:** 17 **QUARTERS/FOOTAGES:** SE NE NE
QUADRANGLE: NEWTON **LONGITUDE:** -88.227455 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 38.962104 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 555.0 **LOGGED (FT.):** 1514.0 **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
-307.0	BOND	CARTHAGE	LIMESTONE	6.0	862.0
-473.0	MODESTO	TRIVOLI	SANDSTONE	48.0	1028.0
-530.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	1085.0
-632.0	CARBONDALE	DANVILLE	COAL	2.5	1187.0
-684.0	CARBONDALE	HERRIN	COAL	5.5	1239.0
-722.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1277.0
-801.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1356.0
-931.0	CARBONDALE	COLCHESTER	COAL	-	1486.0
-951.0	SPOON	SEELYVILLE	COAL	8.0	1506.0

MAPID: 07922851000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 18 QUARTERS/FOOTAGES: 600' N line, 49' W line
 QUADRANGLE: LATONA LONGITUDE: -88.260066 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.962961 DATE COLLECTED: 11 / 0 / 1978
 SURFACE ELEVATION (FT.): 551.0 LOGGED (FT.): 1355.0 LOG TYPE: Multiple log types
 SOURCE: COASTAL STATES ILJC-78-14 WELL TYPE: Coal Test
 COMMENT: DRILLERS LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
551.0			UNCONSOLIDATED	30.0	0.0	
521.0	MATTOON		GRAY SHALE	80.0	30.0	
441.0	MATTOON		COAL	0.5	110.0	
440.5	MATTOON		SHALE	18.5	110.5	
422.0	MATTOON		SHALE/COAL	1.0	129.0	
421.0	MATTOON		LIMESTONE	10.0	130.0	
411.0	MATTOON		GRAY SHALE	30.0	140.0	
381.0	MATTOON		DARK SHALE & BLACK SHALE	30.0	170.0	
351.0	MATTOON		GRAY SHALE	30.0	200.0	
321.0	MATTOON		CALCAREOUS SHALE	30.0	230.0	
291.0	MATTOON		LIMESTONE	10.0	260.0	
281.0	MATTOON		GRAY SHALE	20.0	270.0	COAL AT 285'
261.0	MATTOON		DARK SHALE	70.0	290.0	
191.0	MATTOON		COAL WITH SHALE	10.0	360.0	
181.0	MATTOON		CALCAREOUS SHALE	10.0	370.0	
171.0	MATTOON		GRAY SHALE	20.0	380.0	
151.0	MATTOON		CALCAREOUS SHALE	50.0	400.0	
101.0	MATTOON		GRAY SHALE	60.0	450.0	
41.0	MATTOON		CALCAREOUS SHALE	40.0	510.0	
1.0	MATTOON		BLACK SHALE	10.0	550.0	
-9.0	MATTOON		BLACK SHALE & CLAY	10.0	560.0	
-19.0	MATTOON		GRAY SHALE	42.0	570.0	
-61.0	MATTOON		LIMESTONE	46.0	612.0	
-107.0	MATTOON		GRAY SHALE	12.0	658.0	SOME COAL AT 668'
-119.0	MATTOON		SHALE	40.0	670.0	
-159.0	MATTOON		BLACK SHALE	10.0	710.0	
-169.0	BOND		SANDSTONE	10.0	720.0	APPROX. TOP OF BOND
-179.0	BOND		SILTSTONE	10.0	730.0	
-189.0	BOND		GRAY SHALE	30.0	740.0	
-219.0	BOND		BLACK SHALE	10.0	770.0	
-229.0	BOND		GRAY SHALE	20.0	780.0	
-249.0	BOND		SILTSTONE & SHALE	20.0	800.0	
-269.0	BOND		LIMESTONE	10.0	820.0	
-279.0	BOND		SANDSTONE	10.0	830.0	
-289.0	BOND		SILTSTONE	20.0	840.0	
-309.0	BOND		LIMESTONE	10.0	860.0	
-319.0	BOND		LIMESTONE/SILTSTONE	10.0	870.0	
-329.0	MODESTO		SILTSTONE/SANDSTONE	10.0	880.0	APPROX. TOP OF MODESTO

-339.0	MODESTO		DARK SHALE & BLACK SHALE	40.0	890.0	
-379.0	MODESTO		SILTSTONE	20.0	930.0	
-399.0	MODESTO		SANDSTONE	40.0	950.0	
-439.0	MODESTO		SHALE & SANDSTONE	10.0	990.0	
-449.0	MODESTO		LIMESTONE/SHALE/SANDS TONE	10.0	1000.0	
-459.0	MODESTO		SAND	20.0	1010.0	
-479.0	MODESTO		SANDSTONE/LIMESTONE	20.0	1030.0	
-499.0	MODESTO		SANDSTONE	20.0	1050.0	
-519.0	MODESTO		CALCAREOUS SHALE	20.0	1070.0	
-539.0	MODESTO		GRAY SHALE	124.0	1090.0	
-663.0	CARBONDALE	DANVILLE	COAL	3.0	1214.0	
-666.0	CARBONDALE		SHALE	5.0	1217.0	
-671.0	CARBONDALE		GRAY SHALE	1.7	1222.0	CORE #1 1222-1237.9
-672.7	CARBONDALE		SANDSTONE	1.9	1223.7	
-674.6	CARBONDALE		SHALE & SANDSTONE	3.3	1225.6	
-677.9	CARBONDALE		SANDSTONE	3.7	1228.9	
-681.6	CARBONDALE		SANDSTONE/SHALE	1.5	1232.6	
-683.1	CARBONDALE		SANDSTONE	0.6	1234.1	
-683.7	CARBONDALE		SHALE & SANDSTONE	0.9	1234.7	
-684.5	CARBONDALE		SANDSTONE/SHALE	0.8	1235.5	
-685.3	CARBONDALE		DARK SHALE & BLACK SHALE	1.6	1236.3	
-686.9	CARBONDALE		CORE LOSS	0.8	1237.9	CORE #2 1237.9-1254
-687.7	CARBONDALE		GRAY SHALE	2.8	1238.7	
-690.5	CARBONDALE		CLAYSTONE & SILTSTONE	0.6	1241.5	
-691.1	CARBONDALE	CONANT	LIMESTONE	1.5	1242.1	
-692.6	CARBONDALE		CARBONACEOUS SHALE	0.2	1243.6	
-692.7	CARBONDALE	JAMESTOWN	COAL	2.5	1243.7	
-695.3	CARBONDALE		BLACK SHALE	0.8	1246.3	
-696.1	CARBONDALE		DARK SHALE & BLACK SHALE	1.5	1247.1	
-697.5	CARBONDALE	BRERETON	LIMESTONE	4.2	1248.5	
-701.7	CARBONDALE	BRERETON	CORE LOSS	1.3	1252.7	
-703.0	CARBONDALE	BRERETON	LIMESTONE	2.3	1254.0	CORE #3 1254-1273
-705.3	CARBONDALE		GRAY SHALE	0.3	1256.3	
-705.6	CARBONDALE	ANNA	BLACK SHALE	0.5	1256.6	
-706.1	CARBONDALE	HERRIN	COAL	5.6	1257.1	
-711.7	CARBONDALE		CLAYSTONE & SILTY SHALE	10.3	1262.7	
-722.0	CARBONDALE		SILTY SHALE	15.7	1273.0	CORE #4 1273-1293
-737.7	CARBONDALE	BRIAR HILL	COAL	2.2	1288.7	
-739.9	CARBONDALE		DARK SHALE & BLACK SHALE	2.1	1290.9	
-742.0	CARBONDALE		CORE LOSS	1.7	1293.0	CORE #5 1293-1305
-743.7	CARBONDALE		MUDSTONE	1.5	1294.7	
-745.2	CARBONDALE	TURNER MINE	CARBONACEOUS SHALE	1.4	1296.2	
-746.6	CARBONDALE	SPRINGFIELD	COAL	4.5	1297.6	QUESTIONABLE THICKNESS- VERY BROKEN CORE

-751.1	CARBONDALE	CLAYSTONE & SILTSTONE	2.9	1302.1
-754.0	CARBONDALE	GRAY SHALE	5.0	1305.0
-759.0	CARBONDALE	SHALE/COAL	10.0	1310.0
-769.0	CARBONDALE	GRAY SHALE	35.0	1320.0

MAPID: 07900354000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 19 QUARTERS/FOOTAGES: 330' N line, 1650' E line

QUADRANGLE: LATONA LONGITUDE: -88.250924 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.948931 DATE COLLECTED:

SURFACE ELEVATION (FT.): 531.0 LOGGED (FT.): 1515.5 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
-319.0	BOND	CARTHAGE	LIMESTONE	7.0	850.0
-429.0	MODESTO	TRIVOLI	SANDSTONE	43.0	960.0
-499.0	MODESTO	WEST FRANKLIN	LIMESTONE	22.0	1030.0
-666.0	CARBONDALE	DANVILLE	COAL	3.0	1197.0
-710.0	CARBONDALE	HERRIN	COAL	5.0	1241.0
-749.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1280.0
-821.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1352.0
-965.0	CARBONDALE	COLCHESTER	COAL	-	1496.0
-977.0	SPOON	SEELYVILLE	COAL	7.5	1508.0

MAPID: 07923175000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 21 QUARTERS/FOOTAGES: 2606' N line, 54' E line
 QUADRANGLE: NEWTON LONGITUDE: -88.207197 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.94299 DATE COLLECTED: 12 / 12 / 1979
 SURFACE ELEVATION (FT.): 560.0 LOGGED (FT.): 1570.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG7931-33C WELL TYPE: Coal Test
 COMMENT: GAM, DENS, RES, DRILL. LOGS & CORE DESC.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
560.0			UNCONSOLIDATED	14.0	0.0
546.0	MATTOON		GRAY SHALE	5.5	14.0
540.5	MATTOON		SANDSTONE	10.5	19.5
530.0	MATTOON		SANDSTONE/SHALE	70.0	30.0
460.0	MATTOON		GRAY SHALE	8.0	100.0
452.0	MATTOON	FALMOUTH	BLACK SHALE	1.0	108.0
451.0	MATTOON		LIMESTONE	0.5	109.0
450.5	MATTOON		SHALE	47.5	109.5
403.0	MATTOON	TROWBRIDGE	COAL	1.0	157.0
402.0	MATTOON		GRAY SHALE	5.0	158.0
397.0	MATTOON	BOGOTA	LIMESTONE	0.8	163.0
396.2	MATTOON	INGRAHAM	BLACK SHALE	2.2	163.8
394.0	MATTOON		SHALE	6.0	166.0
388.0	MATTOON		GRAY SHALE	20.0	172.0
368.0	MATTOON		LIMESTONE	4.0	192.0
364.0	MATTOON		GRAY SHALE	41.5	196.0
322.5	MATTOON		SANDSTONE	6.5	237.5
316.0	MATTOON		LIMESTONE	3.0	244.0
313.0	MATTOON		SANDSTONE/SHALE	2.0	247.0
311.0	MATTOON		SANDSTONE/LIMESTONE	1.5	249.0
309.5	MATTOON		SANDSTONE	13.5	250.5
296.0	MATTOON		GRAY SHALE	5.0	264.0
291.0	MATTOON	TEUTOPOLIS	BLACK SHALE	2.0	269.0
289.0	MATTOON		GRAY SHALE	8.0	271.0
281.0	MATTOON		LIMESTONE	2.0	279.0
279.0	MATTOON		GRAY SHALE	1.5	281.0
277.5	MATTOON		LIMESTONE	0.5	282.5
277.0	MATTOON		SHALE	11.0	283.0
266.0	MATTOON		SANDSTONE	6.0	294.0
260.0	MATTOON		GRAY SHALE	18.0	300.0
242.0	MATTOON		SANDSTONE	4.5	318.0
237.5	MATTOON		SANDSTONE/SHALE	11.5	322.5
226.0	MATTOON		GRAY SHALE	9.0	334.0
217.0	MATTOON		LIMESTONE	3.0	343.0
214.0	MATTOON		SANDSTONE	14.0	346.0
200.0	MATTOON		GRAY SHALE	94.0	360.0
106.0	MATTOON		COAL	1.0	454.0
105.0	MATTOON		GRAY SHALE	29.0	455.0
76.0	MATTOON		LIMESTONE	1.0	484.0

75.0	MATTOON		SANDSTONE/SHALE	5.0	485.0	
70.0	MATTOON		GRAY SHALE	54.0	490.0	
16.0	MATTOON		SHALE/COAL	2.0	544.0	
14.0	MATTOON		UNDERCLAY	3.0	546.0	
11.0	MATTOON		SANDSTONE	11.0	549.0	
0.0	MATTOON		GRAY SHALE	4.0	560.0	
-4.0	MATTOON		LIMESTONE	2.5	564.0	
-6.5	MATTOON		SHALE & SANDSTONE	13.5	566.5	
-20.0	MATTOON		GRAY SHALE	32.5	580.0	
-52.5	MATTOON		LIMESTONE	1.0	612.5	
-53.5	MATTOON		SANDSTONE	6.5	613.5	
-60.0	MATTOON		SHALE & SANDSTONE	18.5	620.0	
-78.5	MATTOON		LIMESTONE	0.5	638.5	
-79.0	MATTOON		SANDSTONE	11.0	639.0	
-90.0	MATTOON		GRAY SHALE	10.0	650.0	
-100.0	MATTOON		LIMESTONE	2.0	660.0	
-102.0	MATTOON		GRAY SHALE	13.0	662.0	
-115.0	MATTOON		COAL	2.0	675.0	
-117.0	MATTOON		GRAY SHALE	8.5	677.0	
-125.5	MATTOON		COAL	1.0	685.5	
-126.5	BOND		SHALE	116.5	686.5	APPROXIMATE TOP OF BOND FORMATION
-243.0	BOND		COAL	2.0	803.0	
-245.0	BOND		GRAY SHALE	38.0	805.0	
-283.0	BOND	CARTHAGE	LIMESTONE	5.0	843.0	
-288.0	MODESTO		BLACK SHALE	3.0	848.0	
-291.0	MODESTO		GRAY SHALE	5.0	851.0	
-296.0	MODESTO		SANDSTONE/SHALE	14.0	856.0	
-310.0	MODESTO		GRAY SHALE	47.0	870.0	
-357.0	MODESTO		COAL	2.0	917.0	
-359.0	MODESTO		GRAY SHALE	6.0	919.0	
-365.0	MODESTO		SANDSTONE/SHALE	15.0	925.0	
-380.0	MODESTO		GRAY SHALE	59.6	940.0	
-439.6	MODESTO		LIMESTONE	1.9	999.6	
-441.5	MODESTO		GRAY SHALE	44.5	1001.5	
-486.0	MODESTO		SANDSTONE	14.0	1046.0	
-500.0	MODESTO		SHALE & SANDSTONE	20.0	1060.0	
-520.0	MODESTO		GRAY SHALE	18.5	1080.0	
-538.5	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	1098.5	
-541.5	MODESTO		GRAY SHALE	83.5	1101.5	
-625.0	CARBONDALE	DANVILLE	COAL	2.0	1185.0	
-627.0	CARBONDALE		GRAY SHALE	45.5	1187.0	
-672.5	CARBONDALE	CONANT	LIMESTONE W/ SHALE	1.5	1232.5	
-674.0	CARBONDALE	JAMESTOWN	COAL	3.0	1234.0	
-677.0	CARBONDALE		DARK SHALE	5.0	1237.0	
-682.0	CARBONDALE	BRERETON	LIMESTONE	5.5	1242.0	
-687.5	CARBONDALE	ANNA	BLACK SHALE	0.5	1247.5	
-688.0	CARBONDALE	ANNA	BLACK SHALE	0.2	1248.0	CORE #1 1248-1255
-688.2	CARBONDALE	HERRIN	COAL	6.2	1248.2	

-694.4	CARBONDALE		UNDERCLAY	0.6	1254.4	
-695.0	CARBONDALE		GRAY SHALE	18.5	1255.0	
-713.5	CARBONDALE	BRIAR HILL	COAL	1.5	1273.5	
-715.0	CARBONDALE		DARK SHALE	4.0	1275.0	
-719.0	CARBONDALE	ST. DAVID	LIMESTONE	4.0	1279.0	
-723.0	CARBONDALE		LIMESTONE W/ SHALE	1.0	1283.0	
-724.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1284.0	
-728.5	CARBONDALE		GRAY SHALE	10.5	1288.5	
-739.0	CARBONDALE		LIMESTONE	1.0	1299.0	
-740.0	CARBONDALE		GRAY SHALE	58.0	1300.0	
-798.0	CARBONDALE	HOUCHIN CREEK	BLACK SHALE & CLAY	5.0	1358.0	
-803.0	CARBONDALE		GRAY SHALE	45.0	1363.0	
-848.0	CARBONDALE		SANDSTONE	6.0	1408.0	
-854.0	CARBONDALE		GRAY SHALE	26.0	1414.0	
-880.0	CARBONDALE	SURVANT	COAL	1.0	1440.0	
-881.0	CARBONDALE		SHALE	92.0	1441.0	
-973.0	CARBONDALE	COLCHESTER	COAL	0.5	1533.0	
-973.5	CARBONDALE	COLCHESTER	COAL	0.5	1533.5	CORE #2 1533.5-1537'
-974.0	CARBONDALE		UNDERCLAY	3.0	1534.0	
-977.0	SPOON		GRAY SHALE	3.0	1537.0	
-980.0	SPOON		DARK SHALE	3.0	1540.0	
-983.0	SPOON	SEELYVILLE	COAL	2.5	1543.0	
-985.5	SPOON	SEELYVILLE	GRAY SHALE	1.5	1545.5	
-987.0	SPOON	SEELYVILLE	COAL	8.0	1547.0	
-995.0	SPOON		GRAY SHALE	15.0	1555.0	

MAPID: 07900548000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 6N 9E **SECTION:** 22 **QUARTERS/FOOTAGES:** NW NW SW
QUADRANGLE: NEWTON **LONGITUDE:** -88.205855 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.941984 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 1536.0 **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
-282.0	BOND	CARTHAGE	LIMESTONE	6.0	852.0
-460.0	MODESTO	TRIVOLI	SANDSTONE	38.0	1030.0
-620.0	CARBONDALE	DANVILLE	COAL	2.0	1190.0
-680.0	CARBONDALE	HERRIN	COAL	5.0	1250.0
-716.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1286.0
-790.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1360.0
-945.0	CARBONDALE	COLCHESTER	COAL	-	1515.0
-958.0	SPOON	SEELYVILLE	COAL	8.0	1528.0

MAPID: 07900549000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 6N 9E **SECTION:** 22 **QUARTERS/FOOTAGES:** SE SE SW
QUADRANGLE: NEWTON **LONGITUDE:** -88.198919 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.936556 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 570.0 **LOGGED (FT.):** 1511.0 **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
-269.0	BOND	CARTHAGE	LIMESTONE	6.0	839.0
-444.0	MODESTO	TRIVOLI	SANDSTONE	44.0	1014.0
-503.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	1073.0
-598.0	CARBONDALE	DANVILLE	COAL	2.0	1168.0
-660.0	CARBONDALE	HERRIN	COAL	4.0	1230.0
-694.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1264.0
-766.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1336.0
-922.0	CARBONDALE	COLCHESTER	COAL	-	1492.0
-933.0	SPOON	SEELYVILLE	COAL	8.0	1503.0

MAPID: 07901608000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 6N 9E **SECTION:** 22 **QUARTERS/FOOTAGES:** NE NE NW
QUADRANGLE: NEWTON **LONGITUDE:** -88.198817 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.949432 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 559.0 **LOGGED (FT.):** 1477.0 **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
-282.0	BOND	CARTHAGE	LIMESTONE	6.0	841.0
-590.0	CARBONDALE	DANVILLE	COAL	2.0	1149.0
-651.0	CARBONDALE	HERRIN	COAL	5.5	1210.0
-684.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1243.0
-763.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1322.0
-901.0	CARBONDALE	COLCHESTER	COAL	-	1460.0
-912.0	SPOON	SEELYVILLE	COAL	6.0	1471.0

MAPID: 07900988000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 23 QUARTERS/FOOTAGES: SW NE SW
QUADRANGLE: NEWTON LONGITUDE: -88.182491 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.940388 DATE COLLECTED:
SURFACE ELEVATION (FT.): 578.0 LOGGED (FT.): 1469.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-250.0	BOND	CARTHAGE	LIMESTONE	5.0	828.0
-404.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	982.0
-559.0	CARBONDALE	DANVILLE	COAL	1.5	1137.0
-626.0	CARBONDALE	HERRIN	COAL	4.0	1204.0
-656.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1234.0
-732.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1310.0
-875.0	CARBONDALE	COLCHESTER	COAL	-	1453.0
-886.0	SPOON	SEELYVILLE	COAL	5.0	1464.0

MAPID: 07901193000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 23 QUARTERS/FOOTAGES: SE SW NE
QUADRANGLE: NEWTON LONGITUDE: -88.175397 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.944109 DATE COLLECTED:
SURFACE ELEVATION (FT.): 557.0 LOGGED (FT.): 1436.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-233.0	BOND	CARTHAGE	LIMESTONE	6.0	790.0
-400.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	957.0
-554.0	CARBONDALE	DANVILLE	COAL	1.5	1111.0
-619.0	CARBONDALE	HERRIN	COAL	4.5	1176.0
-651.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1208.0
-723.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1280.0
-863.0	CARBONDALE	COLCHESTER	COAL	-	1420.0
-875.0	SPOON	SEELYVILLE	COAL	4.0	1432.0

MAPID: 07922766000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 23 QUARTERS/FOOTAGES: 80' S line, 1310' E line
 QUADRANGLE: NEWTON LONGITUDE: -88.174062 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.936048 DATE COLLECTED: 8 / 16 / 1978
 SURFACE ELEVATION (FT.): 550.0 LOGGED (FT.): 1218.5 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG-78-10C WELL TYPE: Coal Test
 COMMENT: GAMMA,DENSITY, AND RESIST. LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.0			UNCONSOLIDATED	51.0	0.0	
499.0	MATTOON	FALMOUTH	BLACK SHALE	3.0	51.0	BASE OF GLACIAL DRIFT
496.0	MATTOON		UNCLASSIFIED	91.0	54.0	
405.0	MATTOON		LIMESTONE	4.3	145.0	
400.7	MATTOON		UNCLASSIFIED	150.7	149.3	
250.0	MATTOON		COAL	2.0	300.0	
248.0	MATTOON		UNCLASSIFIED	182.0	302.0	
66.0	MATTOON		BLACK SHALE	3.5	484.0	
62.5	MATTOON		UNCLASSIFIED	102.5	487.5	
-40.0	BOND	MILLERSVILLE	LIMESTONE	4.0	590.0	
-44.0	BOND		UNCLASSIFIED	131.2	594.0	
-175.2	BOND		COAL	1.8	725.2	
-177.0	BOND		UNCLASSIFIED	45.0	727.0	
-222.0	BOND	CARTHAGE	LIMESTONE	2.3	772.0	
-224.3	MODESTO	NEW HAVEN	BLACK SHALE	1.2	774.3	
-225.5	MODESTO		UNCLASSIFIED	68.0	775.5	
-293.5	MODESTO	CHAPEL	BLACK SHALE	3.5	843.5	
-297.0	MODESTO		UNCLASSIFIED	80.0	847.0	
-377.0	MODESTO		BLACK SHALE	2.0	927.0	
-379.0	MODESTO		UNCLASSIFIED	15.0	929.0	
-394.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	944.0	
-408.0	MODESTO		UNCLASSIFIED	144.2	958.0	
-552.2	CARBONDALE	DANVILLE	COAL	2.8	1102.2	
-555.0	CARBONDALE		SHALE	9.5	1105.0	
-564.5	CARBONDALE	BANKSTON FORK	LIMESTONE	3.5	1114.5	
-568.0	CARBONDALE		SHALE	29.0	1118.0	
-597.0	CARBONDALE	CONANT	LIMESTONE	2.0	1147.0	
-599.0	CARBONDALE		SHALE	1.0	1149.0	
-600.0	CARBONDALE	JAMESTOWN	COAL	2.8	1150.0	
-602.8	CARBONDALE		SHALE	3.2	1152.8	
-606.0	CARBONDALE	BRERETON	LIMESTONE	4.5	1156.0	
-610.5	CARBONDALE	ANNA	BLACK SHALE	2.1	1160.5	
-612.6	CARBONDALE	HERRIN	COAL	5.4	1162.6	
-618.0	CARBONDALE		UNCLASSIFIED	16.0	1168.0	
-634.0	CARBONDALE	BRIAR HILL	COAL	2.0	1184.0	
-636.0	CARBONDALE		UNCLASSIFIED	4.0	1186.0	
-640.0	CARBONDALE	ST. DAVID	LIMESTONE	3.5	1190.0	
-643.5	CARBONDALE	TURNER MINE	BLACK SHALE	2.3	1193.5	
-645.8	CARBONDALE	SPRINGFIELD	COAL	3.2	1195.8	

-649.0 CARBONDALE

UNCLASSIFIED

19.5 1199.0

MAPID: 07900832000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 6N 9E

SECTION: 25

QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: NEWTON

LONGITUDE: -88.15663

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.922085

DATE COLLECTED:

SURFACE ELEVATION (FT.): 555.0

LOGGED (FT.): 1428.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-193.0	BOND	CARTHAGE	LIMESTONE	5.0	748.0
-527.0	CARBONDALE	DANVILLE	COAL	1.5	1082.0
-596.0	CARBONDALE	HERRIN	COAL	3.0	1151.0
-626.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1181.0
-700.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1255.0
-843.0	CARBONDALE	COLCHESTER	COAL	-	1398.0
-866.0	SPOON	SEELYVILLE	COAL	7.0	1421.0

MAPID: 07900842000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 6N 9E

SECTION: 25

QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: NEWTON

LONGITUDE: -88.156726

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 38.929345

DATE COLLECTED:

SURFACE ELEVATION (FT.): 568.0

LOGGED (FT.): 1415.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-183.0	BOND	CARTHAGE	LIMESTONE	5.0	751.0
-364.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	932.0
-512.0	CARBONDALE	DANVILLE	COAL	2.0	1080.0
-579.0	CARBONDALE	HERRIN	COAL	3.0	1147.0
-608.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1176.0
-682.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1250.0
-819.0	CARBONDALE	COLCHESTER	COAL	-	1387.0
-842.0	SPOON	SEELYVILLE	COAL	5.0	1410.0

MAPID: 07900283000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 6N 9E

SECTION: 26

QUARTERS/FOOTAGES: NW NW SW

QUADRANGLE: NEWTON

LONGITUDE: -88.18737

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.927384

DATE COLLECTED:

SURFACE ELEVATION (FT.): 582.0

LOGGED (FT.): 1488.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-238.0	BOND	CARTHAGE	LIMESTONE	5.0	820.0	
-416.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	998.0	
-570.0	CARBONDALE	DANVILLE	COAL	1.5	1152.0	
-631.0	CARBONDALE	HERRIN	COAL	4.5	1213.0	
-664.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1246.0	
-738.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1320.0	
-886.0	CARBONDALE	COLCHESTER	COAL	-	1468.0	
-900.0	SPOON	SEELYVILLE	COAL	6.0	1482.0	

MAPID: 07923158000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 26 QUARTERS/FOOTAGES: 363' S line, 57' E line
 QUADRANGLE: NEWTON LONGITUDE: -88.169626 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.922287 DATE COLLECTED: 10 / 30 / 1979
 SURFACE ELEVATION (FT.): 575.0 LOGGED (FT.): 1190.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG79-26-21 WELL TYPE: Coal Test
 COMMENT: GAMMA, DESNITY, RESIST AND DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
575.0			UNCONSOLIDATED	22.0	0.0	
553.0	MATTOON		GRAY SHALE	46.0	22.0	
507.0	MATTOON		BLACK SHALE	4.0	68.0	
503.0	MATTOON		GRAY SHALE	62.0	72.0	
441.0	MATTOON		LIMESTONE	2.0	134.0	
439.0	MATTOON		GRAY SHALE	31.0	136.0	
408.0	MATTOON		LIMESTONE	3.0	167.0	
405.0	MATTOON		GRAY SHALE	28.0	170.0	
377.0	MATTOON		BLACK SHALE	3.0	198.0	
374.0	MATTOON		GRAY SHALE	24.5	201.0	
349.5	MATTOON		LIMESTONE	1.5	225.5	
348.0	MATTOON		SHALE & SANDSTONE	144.0	227.0	
204.0	MATTOON		LIMESTONE	1.0	371.0	
203.0	MATTOON		GRAY SHALE	106.0	372.0	
97.0	MATTOON		LIMESTONE	3.0	478.0	
94.0	MATTOON		SANDSTONE	15.0	481.0	
79.0	MATTOON		GRAY SHALE	8.0	496.0	
71.0	MATTOON		COAL	1.0	504.0	
70.0	MATTOON		GRAY SHALE	4.0	505.0	
66.0	MATTOON		LIMESTONE	1.5	509.0	
64.5	MATTOON		SANDSTONE	5.5	510.5	
59.0	MATTOON		GRAY SHALE	12.0	516.0	
47.0	MATTOON		COAL	1.0	528.0	
46.0	MATTOON		GRAY SHALE	4.0	529.0	
42.0	MATTOON		LIMESTONE	9.0	533.0	
33.0	MATTOON		SANDSTONE	25.0	542.0	
8.0	MATTOON		LIMESTONE	2.0	567.0	
6.0	MATTOON		GRAY SHALE	15.0	569.0	
-9.0	MATTOON		COAL	1.5	584.0	
-10.5	MATTOON		GRAY SHALE	15.5	585.5	
-26.0	BOND	MILLERSVILLE	LIMESTONE	3.0	601.0	UNCERTAIN CORRELATION
-29.0	BOND		GRAY SHALE	5.0	604.0	
-34.0	BOND		BLACK SHALE	1.5	609.0	
-35.5	BOND		GRAY SHALE	3.0	610.5	
-38.5	BOND		COAL	1.0	613.5	
-39.5	BOND		GRAY SHALE	43.5	614.5	
-83.0	BOND		LIMESTONE	1.0	658.0	
-84.0	BOND		GRAY SHALE	10.5	659.0	
-94.5	BOND		LIMESTONE	2.5	669.5	

-97.0	BOND		SANDSTONE	3.0	672.0	
-100.0	BOND		GRAY SHALE	20.0	675.0	
-120.0	BOND		COAL	2.0	695.0	
-122.0	BOND		GRAY SHALE	9.0	697.0	
-131.0	BOND		SANDSTONE	7.0	706.0	
-138.0	BOND		LIMESTONE	1.5	713.0	
-139.5	BOND		SANDSTONE	7.5	714.5	
-147.0	BOND		GRAY SHALE	18.5	722.0	
-165.5	BOND	CARTHAGE	LIMESTONE	5.5	740.5	
-171.0	MODESTO		GRAY SHALE	2.0	746.0	
-173.0	MODESTO		BLACK SHALE	1.0	748.0	
-174.0	MODESTO		GRAY SHALE	70.5	749.0	
-244.5	MODESTO		BLACK SHALE & CLAY	3.5	819.5	
-248.0	MODESTO		SHALE	9.0	823.0	
-257.0	MODESTO		LIMESTONE	2.0	832.0	
-259.0	MODESTO		SHALE	98.5	834.0	
-357.5	MODESTO	WEST FRANKLIN	LIMESTONE	0.5	932.5	FORM. DEPTHS ACCORDING TO DRILLERS LOG W/CORRESPONDING THICKNESS TO RESIST. LOG
-358.0	MODESTO	WEST FRANKLIN	SHALE	1.0	933.0	
-359.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	934.0	
-364.0	MODESTO	WEST FRANKLIN	SHALE	2.0	939.0	
-366.0	MODESTO	WEST FRANKLIN	LIMESTONE	0.5	941.0	
-366.5	MODESTO		SHALE	134.0	941.5	
-500.5	CARBONDALE	DANVILLE	COAL	2.5	1075.5	
-503.0	CARBONDALE		UNDERCLAY	4.0	1078.0	
-507.0	CARBONDALE		GRAY SHALE	37.0	1082.0	
-544.0	CARBONDALE	CONANT	LIMESTONE	2.2	1119.0	
-546.2	CARBONDALE	JAMESTOWN	COAL	2.8	1121.2	
-549.0	CARBONDALE		GRAY SHALE	3.8	1124.0	
-552.8	CARBONDALE	BRERETON	LIMESTONE	6.0	1127.8	
-558.8	CARBONDALE	HERRIN	COAL	5.7	1133.8	
-564.5	CARBONDALE		UNDERCLAY	2.5	1139.5	
-567.0	CARBONDALE		GRAY SHALE	15.0	1142.0	
-582.0	CARBONDALE	BRIAR HILL	COAL	2.5	1157.0	
-584.5	CARBONDALE		GRAY SHALE	4.1	1159.5	
-588.6	CARBONDALE	ST. DAVID	LIMESTONE	0.4	1163.6	
-589.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	1164.0	
-591.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1166.0	
-595.5	CARBONDALE		UNDERCLAY	3.5	1170.5	
-599.0	CARBONDALE		GRAY SHALE	8.0	1174.0	
-607.0	CARBONDALE		LIMESTONE W/ SHALE	2.0	1182.0	
-609.0			SHALE	6.0	1184.0	

MAPID: 07901611000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 27 QUARTERS/FOOTAGES: SW SW SE
QUADRANGLE: NEWTON LONGITUDE: -88.196724 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.921721 DATE COLLECTED:
SURFACE ELEVATION (FT.): 563.0 LOGGED (FT.): 1427.5 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
-216.0	BOND	CARTHAGE	LIMESTONE	5.0	779.0
-546.0	CARBONDALE	DANVILLE	COAL	1.5	1109.0
-609.0	CARBONDALE	HERRIN	COAL	3.5	1172.0
-639.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1202.0
-707.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1270.0
-844.0	CARBONDALE	COLCHESTER	COAL	-	1407.0
-859.0	SPOON	SEELYVILLE	COAL	5.5	1422.0

MAPID: 07900015000C VERSION: 1 PROJECT: CONTROL
COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 28 QUARTERS/FOOTAGES: 336' S line, 337' E line of NE SW
QUADRANGLE: NEWTON LONGITUDE: -88.217796 GEOLOGIST: HINES
CONFIDENTIAL: N LATITUDE: 38.925224 DATE COLLECTED:
SURFACE ELEVATION (FT.): LOGGED (FT.): 3129.0 LOG TYPE: Survey Sample Study
SOURCE: GULF REFINING CO. 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: 07900444000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 28 QUARTERS/FOOTAGES: SE SE NW
QUADRANGLE: NEWTON LONGITUDE: -88.21781 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.928957 DATE COLLECTED:
SURFACE ELEVATION (FT.): 564.0 LOGGED (FT.): 1522.0 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
-280.0	BOND	CARTHAGE	LIMESTONE	7.0	844.0
-631.0	CARBONDALE	DANVILLE	COAL	-	1195.0
-688.0	CARBONDALE	HERRIN	COAL	4.0	1252.0
-722.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1286.0
-796.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1360.0
-937.0	CARBONDALE	COLCHESTER	COAL	-	1501.0
-951.0	SPOON	SEELYVILLE	COAL	7.0	1515.0

MAPID: 07901006000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 6N 9E

SECTION: 28

QUARTERS/FOOTAGES: SE NE

QUADRANGLE: NEWTON

LONGITUDE: -88.209474

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.929972

DATE COLLECTED:

SURFACE ELEVATION (FT.): 583.0

LOGGED (FT.): 1529.5

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-261.0	BOND	CARTHAGE	LIMESTONE	4.0	844.0	
-612.0	CARBONDALE	DANVILLE	COAL	1.5	1195.0	
-677.0	CARBONDALE	HERRIN	COAL	3.0	1260.0	
-710.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1293.0	
-784.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1367.0	
-931.0	CARBONDALE	COLCHESTER	COAL	-	1514.0	
-940.0	SPOON	SEELYVILLE	COAL	6.5	1523.0	

MAPID: 07923176000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 29 QUARTERS/FOOTAGES: 1689' N line, 1260' W line
 QUADRANGLE: NEWTON LONGITUDE: -88.240559 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.930575 DATE COLLECTED: 12 / 20 / 1979
 SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 1298.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG7929-34C WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS, RESIST, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
540.0			UNCONSOLIDATED	76.0	0.0	
464.0	MATTOON	FALMOUTH	GRAY SHALE	21.0	76.0	
443.0	MATTOON		BLACK SHALE	3.0	97.0	
440.0	MATTOON		LIMESTONE	8.0	100.0	
432.0	MATTOON		GRAY SHALE	10.0	108.0	
422.0	MATTOON		LIMESTONE	3.0	118.0	
419.0	MATTOON		GRAY SHALE	21.0	121.0	
398.0	MATTOON		BLACK SHALE & CLAY	4.0	142.0	
394.0	MATTOON		GRAY SHALE	10.0	146.0	
384.0	MATTOON	INGRAHAM	LIMESTONE	2.0	156.0	
382.0	MATTOON		BLACK SHALE	3.0	158.0	
379.0	MATTOON		GRAY SHALE	5.0	161.0	
374.0	MATTOON		GREEN SHALE	18.0	166.0	
356.0	MATTOON		LIMESTONE	2.5	184.0	
353.5	MATTOON		SHALE	53.5	186.5	
300.0	MATTOON		LIMESTONE	1.5	240.0	
298.5	MATTOON		GRAY SHALE	6.5	241.5	
292.0	MATTOON	TEUTOPOLIS	LIMESTONE	0.5	248.0	
291.5	MATTOON		GRAY SHALE	10.5	248.5	
281.0	MATTOON		BLACK SHALE	2.5	259.0	
278.5	MATTOON		GRAY SHALE	56.0	261.5	
222.5	MATTOON		LIMESTONE	0.5	317.5	
222.0	MATTOON		GRAY SHALE	17.8	318.0	
204.2	MATTOON		LIMESTONE	2.2	335.8	
202.0	MATTOON		GRAY SHALE	42.5	338.0	
159.5	MATTOON		LIMESTONE	3.5	380.5	
156.0	MATTOON		GRAY SHALE	99.0	384.0	
57.0	MATTOON		LIMESTONE	1.0	483.0	
56.0	MATTOON		GRAY SHALE	73.5	484.0	
-17.5	MATTOON		LIMESTONE	0.5	557.5	
-18.0	MATTOON		GRAY SHALE	5.0	558.0	
-23.0	MATTOON		SANDSTONE	17.0	563.0	
-40.0	MATTOON		GRAY SHALE	30.0	580.0	
-70.0	MATTOON		SANDSTONE	2.0	610.0	
-72.0	MATTOON		LIMESTONE	8.0	612.0	
-80.0	MATTOON		SANDSTONE	32.0	620.0	
-112.0	MATTOON		LIMESTONE	4.5	652.0	
-116.5	MATTOON		GRAY SHALE	43.5	656.5	
-160.0	BOND		GRAY SHALE	52.0	700.0	APPROXIMATE TOP OF BOND FORMATION

-212.0	BOND		LIMESTONE	4.5	752.0	
-216.5	BOND		GRAY SHALE	55.5	756.5	
-272.0	BOND		SANDSTONE	8.0	812.0	
-280.0	BOND		GRAY SHALE	26.0	820.0	
-306.0	BOND	CARTHAGE	LIMESTONE	6.0	846.0	
-312.0	MODESTO		BLACK SHALE	2.0	852.0	
-314.0	MODESTO		GRAY SHALE	61.0	854.0	
-375.0	MODESTO		SANDSTONE	13.0	915.0	
-388.0	MODESTO		LIMESTONE	4.0	928.0	
-392.0	MODESTO		SANDSTONE	8.0	932.0	
-400.0	MODESTO		GRAY SHALE	20.0	940.0	
-420.0	MODESTO		SANDSTONE	47.0	960.0	
-467.0	MODESTO		LIMESTONE	5.0	1007.0	
-472.0	MODESTO		SANDSTONE	13.0	1012.0	
-485.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.5	1025.0	
-493.5	MODESTO	WEST FRANKLIN	GRAY SHALE	5.0	1033.5	
-498.5	MODESTO	WEST FRANKLIN	LIMESTONE	9.5	1038.5	
-508.0	MODESTO		GRAY SHALE	151.5	1048.0	
-659.5	CARBONDALE	DANVILLE	COAL	3.5	1199.5	ACCORDING TO RESIST. LOG
-663.0	CARBONDALE		GRAY SHALE	6.0	1203.0	
-669.0	CARBONDALE	BANKSTON FORK	LIMESTONE	7.0	1209.0	VERY SANDY LS
-676.0	CARBONDALE		GRAY SHALE	17.0	1216.0	
-693.0	CARBONDALE	JAMESTOWN	COAL	3.5	1233.0	
-696.5	CARBONDALE		GRAY SHALE	2.5	1236.5	
-699.0	CARBONDALE	BRERETON	LIMESTONE	5.5	1239.0	
-704.5	CARBONDALE	ANNA	SHALE	1.0	1244.5	CORE 1244-1252'
-705.5	CARBONDALE	HERRIN	COAL	6.3	1245.5	
-711.8	CARBONDALE		GRAY SHALE	20.2	1251.8	
-732.0	CARBONDALE	BRIAR HILL	COAL	2.5	1272.0	
-734.5	CARBONDALE		GRAY SHALE	7.0	1274.5	
-741.5	CARBONDALE	ST. DAVID	LIMESTONE	1.0	1281.5	
-742.5	CARBONDALE	TURNER MINE	SHALE	1.0	1282.5	
-743.5	CARBONDALE	SPRINGFIELD	COAL	4.5	1283.5	
-748.0	CARBONDALE		GRAY SHALE	10.0	1288.0	

MAPID: 07900355000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 6N 9E

SECTION: 31

QUARTERS/FOOTAGES: SW SW SE

QUADRANGLE: LATONA

LONGITUDE: -88.252841

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.906696

DATE COLLECTED:

SURFACE ELEVATION (FT.): 515.0

LOGGED (FT.): 1463.0

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	
-253.0	BOND	CARTHAGE	LIMESTONE	5.0	768.0	
-611.0	CARBONDALE	DANVILLE	COAL	2.0	1126.0	
-661.0	CARBONDALE	HERRIN	COAL	5.0	1176.0	
-699.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1214.0	
-775.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1290.0	
-910.0	CARBONDALE	COLCHESTER	COAL	-	1425.0	
-945.0	SPOON	SEELYVILLE	COAL	3.0	1460.0	

MAPID: 07922779000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 31 QUARTERS/FOOTAGES: 2562' N line, 1260' E line

QUADRANGLE: NEWTON LONGITUDE: -88.249205 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.913101 DATE COLLECTED: 11 / 10 / 1978

SURFACE ELEVATION (FT.): 520.0 LOGGED (FT.): 1260.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. IG-78-19C WELL TYPE: Coal Test

COMMENT: G, D, R, DRIL LOGS & CORE DESC NO UPBKSH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
520.0			UNCONSOLIDATED	36.0	0.0	
484.0	MATTOON		DARK SHALE	16.0	36.0	
468.0	MATTOON		BLACK SHALE	2.0	52.0	
466.0	MATTOON		GRAY SHALE	70.0	54.0	
396.0	MATTOON		BLACK SHALE	4.0	124.0	
392.0	MATTOON		GRAY SHALE	9.0	128.0	
383.0	MATTOON		LIMESTONE	2.0	137.0	
381.0	MATTOON		GRAY SHALE	1.0	139.0	
380.0	MATTOON		LIMESTONE	1.8	140.0	
378.2	MATTOON		GRAY SHALE	138.2	141.8	
240.0	MATTOON		LIMESTONE	1.2	280.0	
238.8	MATTOON		GRAY SHALE	8.8	281.2	
230.0	MATTOON		SHALE & SANDSTONE	26.0	290.0	
204.0	MATTOON		GRAY SHALE	4.0	316.0	
200.0	MATTOON		SHALE & SANDSTONE	42.0	320.0	
158.0	MATTOON		GRAY SHALE	34.0	362.0	
124.0	MATTOON		SHALE & SANDSTONE	35.0	396.0	
89.0	MATTOON		SANDSTONE/LIMESTONE	5.0	431.0	
84.0	MATTOON		SANDSTONE	26.0	436.0	
58.0	MATTOON		GRAY SHALE	63.0	462.0	
-5.0	MATTOON		SHALE & SANDSTONE	11.0	525.0	
-16.0	MATTOON		GRAY SHALE	18.0	536.0	
-34.0	MATTOON		COAL	2.0	554.0	
-36.0	MATTOON		GRAY SHALE	16.0	556.0	
-52.0	MATTOON		BLACK SHALE & CLAY	3.0	572.0	
-55.0	MATTOON		LIMESTONE	3.6	575.0	
-58.6	MATTOON		GRAY SHALE	51.4	578.6	
-110.0	MATTOON		SHALE & SANDSTONE	24.0	630.0	
-134.0	BOND		GRAY SHALE	46.0	654.0	APPROXIMATE TOP OF BOND
-180.0	BOND		CALCAREOUS SHALE	57.0	700.0	
-237.0	BOND		GRAY SHALE	36.5	757.0	
-273.5	BOND	CARTHAGE	LIMESTONE	5.5	793.5	
-279.0	MODESTO	NEW HAVEN	BLACK SHALE	1.0	799.0	
-280.0	MODESTO		GRAY SHALE	201.8	800.0	
-481.8	MODESTO	WEST FRANKLIN	LIMESTONE	9.2	1001.8	
-491.0	MODESTO	WEST FRANKLIN	GRAY SHALE	10.0	1011.0	
-501.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	1021.0	
-517.0	MODESTO		GRAY SHALE	113.5	1037.0	
-630.5	CARBONDALE	DANVILLE	COAL	3.0	1150.5	

-633.5	CARBONDALE		GRAY SHALE	26.5	1153.5	
-660.0	CARBONDALE	CONANT	LIMESTONE	1.0	1180.0	CORE #1 1180-1190'
-661.0	CARBONDALE	JAMESTOWN	COAL	1.7	1181.0	
-662.6	CARBONDALE	JAMESTOWN	GRAY SHALE	1.7	1182.6	
-664.3	CARBONDALE	JAMESTOWN	COAL	1.1	1184.3	
-665.4	CARBONDALE		GRAY SHALE	2.8	1185.4	
-668.2	CARBONDALE	BRERETON	LIMESTONE	1.7	1188.2	
-669.9	CARBONDALE		CORE LOSS	0.1	1189.9	CORE LOSS
-670.0	CARBONDALE	BRERETON	LIMESTONE	4.0	1190.0	CORE #2 1190-1200'
-674.0	CARBONDALE	ANNA	BLACK SHALE	1.0	1194.0	
-675.0	CARBONDALE	HERRIN	COAL	5.0	1195.0	
-680.0	CARBONDALE	HERRIN	COAL	0.9	1200.0	CORE #3 1200-1210'
-680.9	CARBONDALE		UNDERCLAY	3.1	1200.9	
-684.0	CARBONDALE		SHALE/UNDERCLAY	5.9	1204.0	
-689.9	CARBONDALE		CORE LOSS	0.2	1209.9	CORE LOSS
-690.0	CARBONDALE		GRAY SHALE	10.0	1210.0	CORE #4 1210-1220
-700.0	CARBONDALE		GRAY SHALE	1.0	1220.0	CORE #5 1220-1230'
-701.0	CARBONDALE	BRIAR HILL	COAL	2.5	1221.0	
-703.5	CARBONDALE		SHALE/UNDERCLAY	1.7	1223.5	
-705.1	CARBONDALE		GRAY SHALE	3.2	1225.1	
-708.3	CARBONDALE	ST. DAVID	LIMESTONE	1.7	1228.3	
-710.0	CARBONDALE	ST. DAVID	LIMESTONE	0.7	1230.0	CORE #6 1230-1240'
-710.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	1230.7	
-711.9	CARBONDALE	SPRINGFIELD	COAL	4.3	1231.9	
-716.2	CARBONDALE		UNDERCLAY	3.8	1236.2	
-720.0	CARBONDALE		LIMESTONE	1.0	1240.0	CORE #7 1240-1247'
-721.0	CARBONDALE		SANDSTONE	3.8	1241.0	
-724.8	CARBONDALE		GRAY SHALE	2.2	1244.8	
-727.0	CARBONDALE		GRAY SHALE	13.0	1247.0	

MAPID: 07901911000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 32 QUARTERS/FOOTAGES: 660' N line, 330' E line of NW SE

QUADRANGLE: NEWTON LONGITUDE: -88.231954 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.911269 DATE COLLECTED:

SURFACE ELEVATION (FT.): 544.0 LOGGED (FT.): 1463.0 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	BOND	CARTHAGE	LIMESTONE	5.0	805.0
-608.0	CARBONDALE	DANVILLE	COAL	-	1152.0
-658.0	CARBONDALE	HERRIN	COAL	3.0	1202.0
-695.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1239.0
-766.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1310.0
-902.0	CARBONDALE	COLCHESTER	COAL	-	1446.0
-916.0	SPOON	SEELYVILLE	COAL	3.0	1460.0

MAPID: 07900298000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 33 QUARTERS/FOOTAGES: 335' S line, 337' E line of NE NW

QUADRANGLE: NEWTON LONGITUDE: -88.217809 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.917839 DATE COLLECTED:

SURFACE ELEVATION (FT.): 559.0 LOGGED (FT.): 1482.0 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
-255.0	BOND	CARTHAGE	LIMESTONE	5.0	814.0
-604.0	CARBONDALE	DANVILLE	COAL	2.5	1163.0
-661.0	CARBONDALE	HERRIN	COAL	4.5	1220.0
-696.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1255.0
-769.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1328.0
-901.0	CARBONDALE	COLCHESTER	COAL	-	1460.0
-917.0	SPOON	SEELYVILLE	COAL	6.0	1476.0

MAPID: 07900446000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 6N 9E

SECTION: 33

QUARTERS/FOOTAGES: SE NE SE

QUADRANGLE: NEWTON

LONGITUDE: -88.208448

GEOLOGIST: C TREWORGY

CONFIDENTIAL: N

LATITUDE: 38.910598

DATE COLLECTED:

SURFACE ELEVATION (FT.): 560.0

LOGGED (FT.): 1443.5

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
-225.0	BOND	CARTHAGE	LIMESTONE	5.0	785.0
-436.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	996.0
-562.0	CARBONDALE	DANVILLE	COAL	1.5	1122.0
-621.0	CARBONDALE	HERRIN	COAL	4.0	1181.0
-655.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1215.0
-727.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1287.0
-858.0	CARBONDALE	COLCHESTER	COAL	-	1418.0
-881.0	SPOON	SEELYVILLE	COAL	2.5	1441.0

MAPID: 07923159000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 33 QUARTERS/FOOTAGES: 42' N line, 714' W line
 QUADRANGLE: NEWTON LONGITUDE: -88.223552 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.92039 DATE COLLECTED: 12 / 5 / 1979
 SURFACE ELEVATION (FT.): 550.0 LOGGED (FT.): 1322.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG79-33-20 WELL TYPE: Coal Test
 COMMENT: GAMMA, DENSITY, RESIST., DRILLERS LOGS

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
550.0			UNCONSOLIDATED	79.0	0.0
471.0	MATTOON		GREEN SHALE	9.0	79.0
462.0	MATTOON		SANDSTONE	2.0	88.0
460.0	MATTOON		LIMESTONE	1.0	90.0
459.0	MATTOON		GRAY SHALE	35.5	91.0
423.5	MATTOON		LIMESTONE	0.5	126.5
423.0	MATTOON		SHALE	32.5	127.0
390.5	MATTOON		LIMESTONE	4.0	159.5
386.5	MATTOON		GRAY SHALE	37.5	163.5
349.0	MATTOON		LIMESTONE	1.0	201.0
348.0	MATTOON		SANDSTONE	2.0	202.0
346.0	MATTOON		GRAY SHALE	10.5	204.0
335.5	MATTOON		LIMESTONE	3.5	214.5
332.0	MATTOON		GRAY SHALE	14.0	218.0
318.0	MATTOON		BLACK SHALE	3.0	232.0
315.0	MATTOON		SHALE	15.0	235.0
300.0	MATTOON		SANDSTONE	20.0	250.0
280.0	MATTOON		GRAY SHALE	18.0	270.0
262.0	MATTOON		SANDSTONE	4.0	288.0
258.0	MATTOON		GRAY SHALE	11.0	292.0
247.0	MATTOON		LIMESTONE	3.5	303.0
243.5	MATTOON		SANDSTONE	3.0	306.5
240.5	MATTOON		LIMESTONE	1.0	309.5
239.5	MATTOON		SHALE	83.5	310.5
156.0	MATTOON		SANDSTONE	92.0	394.0
64.0	MATTOON		LIMESTONE	6.0	486.0
58.0	MATTOON		SANDSTONE	23.0	492.0
35.0	MATTOON		BLACK SHALE	3.0	515.0
32.0	MATTOON		GRAY SHALE	3.0	518.0
29.0	MATTOON		SANDSTONE	9.0	521.0
20.0	MATTOON		GRAY SHALE	8.5	530.0
11.5	MATTOON		LIMESTONE	2.5	538.5
9.0	MATTOON		GRAY SHALE	29.0	541.0
-20.0	MATTOON		SANDSTONE	6.0	570.0
-26.0	MATTOON		GRAY SHALE	10.0	576.0
-36.0	MATTOON		LIMESTONE	7.0	586.0
-43.0	MATTOON		SANDSTONE	15.0	593.0
-58.0	MATTOON		GRAY SHALE	20.0	608.0
-78.0	BOND	MILLERSVILLE	LIMESTONE	3.0	628.0

-81.0	BOND		GRAY SHALE	37.0	631.0
-118.0	BOND		LIMESTONE	1.5	668.0
-119.5	BOND		BLACK SHALE	5.5	669.5
-125.0	BOND		SHALE	56.0	675.0
-181.0	BOND		BLACK SHALE	3.0	731.0
-184.0	BOND		COAL	1.5	734.0
-185.5	BOND		GRAY SHALE	85.5	735.5
-271.0	BOND	CARTHAGE	LIMESTONE	5.0	821.0
-276.0	MODESTO		GRAY SHALE	4.0	826.0
-280.0	MODESTO		SANDSTONE	6.0	830.0
-286.0	MODESTO		GRAY SHALE	64.0	836.0
-350.0	MODESTO		BLACK SHALE	2.0	900.0
-352.0	MODESTO		GRAY SHALE	57.0	902.0
-409.0	MODESTO	TRIVOLI	SANDSTONE	1.0	959.0
-410.0	MODESTO	TRIVOLI	GRAY SHALE	68.0	960.0
-478.0	MODESTO	TRIVOLI	SANDSTONE	34.0	1028.0
-512.0	MODESTO		GRAY SHALE	13.0	1062.0
-525.0	MODESTO		LIMESTONE	2.0	1075.0
-527.0	MODESTO		GRAY SHALE	123.0	1077.0
-650.0	CARBONDALE	DANVILLE	COAL	3.5	1200.0
-651.5	CARBONDALE		GRAY SHALE	45.7	1201.5
-699.2	CARBONDALE	CONANT	LIMESTONE	0.8	1249.2
-700.0	CARBONDALE	JAMESTOWN	COAL	3.0	1250.0
-703.0	CARBONDALE		GRAY SHALE	4.8	1253.0
-707.8	CARBONDALE	BRERETON	LIMESTONE	6.2	1257.8
-714.0	CARBONDALE	ANNA	BLACK SHALE	0.5	1264.0
-714.5	CARBONDALE	HERRIN	COAL	5.5	1264.5
-720.0	CARBONDALE		GRAY SHALE	6.0	1270.0
-726.0	CARBONDALE		LIMESTONE	2.0	1276.0
-728.0	CARBONDALE		GRAY SHALE	16.0	1278.0
-744.0	CARBONDALE	BRIAR HILL	COAL	3.0	1294.0
-747.0	CARBONDALE		GRAY SHALE	7.0	1297.0
-754.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1304.0
-758.5	CARBONDALE		GRAY SHALE	13.5	1308.5

MAPID: 07900447000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 34 QUARTERS/FOOTAGES: 90' N line, 248' E line of SW SW
QUADRANGLE: NEWTON LONGITUDE: -88.203521 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.909492 DATE COLLECTED:
SURFACE ELEVATION (FT.): 553.0 LOGGED (FT.): 1438.0 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
-214.0	BOND	CARTHAGE	LIMESTONE	4.0	767.0
-557.0	CARBONDALE	DANVILLE	COAL	3.0	1110.0
-615.0	CARBONDALE	HERRIN	COAL	4.5	1168.0
-652.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1205.0
-722.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1275.0
-866.0	CARBONDALE	COLCHESTER	COAL	-	1419.0
-882.0	SPOON	SEELYVILLE	COAL	3.0	1435.0

MAPID: 07900448000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 34 QUARTERS/FOOTAGES: 330' S line, 465' W line of NW SE
QUADRANGLE: NEWTON LONGITUDE: -88.196342 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.910745 DATE COLLECTED:
SURFACE ELEVATION (FT.): 556.0 LOGGED (FT.): 1412.0 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	BOND	CARTHAGE	LIMESTONE	5.0	752.0
-539.0	CARBONDALE	DANVILLE	COAL	2.0	1095.0
-596.0	CARBONDALE	HERRIN	COAL	3.0	1152.0
-627.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1183.0
-694.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1250.0
-835.0	CARBONDALE	COLCHESTER	COAL	-	1391.0
-851.0	SPOON	SEELYVILLE	COAL	5.0	1407.0

MAPID: 07900284000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 35 QUARTERS/FOOTAGES: NW NW SE
QUADRANGLE: NEWTON LONGITUDE: -88.177915 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.912768 DATE COLLECTED:
SURFACE ELEVATION (FT.): 586.0 LOGGED (FT.): 1466.0 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	
-214.0	BOND	CARTHAGE	LIMESTONE	5.0	800.0	
-464.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	1050.0	
-556.0	CARBONDALE	DANVILLE	COAL	1.5	1142.0	
-610.0	CARBONDALE	HERRIN	COAL	4.5	1196.0	
-644.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1230.0	
-718.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1304.0	
-861.0	CARBONDALE	COLCHESTER	COAL	-	1447.0	
-874.0	SPOON	SEELYVILLE	COAL	6.0	1460.0	

MAPID: 07900850000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 36 QUARTERS/FOOTAGES: NE NW NE
QUADRANGLE: NEWTON LONGITUDE: -88.156629 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.920254 DATE COLLECTED:
SURFACE ELEVATION (FT.): 554.0 LOGGED (FT.): 1419.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-193.0	BOND	CARTHAGE	LIMESTONE	6.0	747.0	
-526.0	CARBONDALE	DANVILLE	COAL	1.5	1080.0	
-590.0	CARBONDALE	HERRIN	COAL	4.5	1144.0	
-622.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1176.0	
-694.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1248.0	
-826.0	CARBONDALE	COLCHESTER	COAL	-	1380.0	
-859.0	SPOON	SEELYVILLE	COAL	6.0	1413.0	

MAPID: 07901111000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 6N 9E

SECTION: 36

QUARTERS/FOOTAGES: 249' S line, 881' E line

QUADRANGLE: NEWTON

LONGITUDE: -88.154052

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.907093

DATE COLLECTED:

SURFACE ELEVATION (FT.): 552.0

LOGGED (FT.): 1411.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-190.0	BOND	CARTHAGE	LIMESTONE	5.0	742.0	
-428.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	980.0	
-518.0	CARBONDALE	DANVILLE	COAL	2.0	1070.0	
-578.0	CARBONDALE	HERRIN	COAL	4.5	1130.0	
-611.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1163.0	
-684.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1236.0	
-830.0	CARBONDALE	COLCHESTER	COAL	-	1382.0	
-854.0	SPOON	SEELYVILLE	COAL	5.0	1406.0	

MAPID: 07923271000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 9E SECTION: 36 QUARTERS/FOOTAGES: 2292' N line, 84' W line
 QUADRANGLE: NEWTON LONGITUDE: -88.169208 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.91496 DATE COLLECTED: 7 / 30 / 1980
 SURFACE ELEVATION (FT.): LOGGED (FT.): 1470.6 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG80-36-6C WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS, RESIST, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-			UNCONSOLIDATED	10.0	0.0	
-	MATTOON		SILTSTONE	0.5	10.0	
-	MATTOON		GRAY SHALE	27.5	10.5	
-	MATTOON	FALMOUTH	BLACK SHALE	1.0	38.0	UNCERTAIN CORRELATION
-	MATTOON		GRAY SHALE	1.5	39.0	
-	MATTOON		SANDSTONE/LIMESTONE	1.5	40.5	
-	MATTOON		GRAY SHALE	10.0	42.0	
-	MATTOON		SHALE & SANDSTONE	8.0	52.0	
-	MATTOON		SANDSTONE	16.0	60.0	
-	MATTOON		BLACK SHALE	4.0	76.0	
-	MATTOON		SANDSTONE	6.0	80.0	
-	MATTOON	INGRAHAM	BLACK SHALE	4.0	86.0	OFF GAMMA LOG
-	MATTOON		GRAY SHALE	16.0	90.0	
-	MATTOON		DARK SHALE	31.8	106.0	
-	MATTOON		LIMESTONE	4.2	137.8	
-	MATTOON		GRAY SHALE	32.0	142.0	
-	MATTOON		LIMESTONE	3.0	174.0	
-	MATTOON		GRAY SHALE	29.0	177.0	
-	MATTOON	TEUTOPOLIS	BLACK SHALE	5.0	206.0	
-	MATTOON		LIMESTONE	5.0	211.0	
-	MATTOON		GRAY SHALE	14.0	216.0	
-	MATTOON		SANDSTONE	13.0	230.0	
-	MATTOON		GRAY SHALE	34.0	243.0	
-	MATTOON		SANDSTONE	8.0	277.0	
-	MATTOON		LIMESTONE	3.0	285.0	
-	MATTOON		SANDSTONE/SHALE	3.0	288.0	
-	MATTOON		COAL	2.0	291.0	
-	MATTOON		GRAY SHALE	101.0	293.0	
-	MATTOON		COAL	1.0	394.0	
-	MATTOON		GRAY SHALE	5.0	395.0	
-	MATTOON		SHALE & SANDSTONE	18.5	400.0	
-	MATTOON		LIMESTONE	1.0	418.5	
-	MATTOON		GRAY SHALE & SANDSTONE	60.5	419.5	
-	MATTOON		SANDSTONE	26.0	480.0	
-	MATTOON		SHALE & SANDSTONE	30.0	506.0	TOP OF BOND ABOUT 527'
-	BOND		COAL	2.0	536.0	
-	BOND		GRAY SHALE	2.0	538.0	
-	BOND		SHALE & SANDSTONE	10.0	540.0	

-	BOND		SANDSTONE	11.0	550.0	
-	BOND		LIMESTONE	2.5	561.0	
-	BOND		SHALE & SANDSTONE	30.5	563.5	
-	BOND		COAL	1.0	594.0	
-	BOND		GRAY SHALE	23.0	595.0	
-	BOND		BLACK SHALE	1.0	618.0	
-	BOND		GRAY SHALE	5.0	619.0	
-	BOND		COAL	1.0	624.0	
-	BOND		GRAY SHALE	44.0	625.0	
-	BOND		LIMESTONE	2.0	669.0	
-	BOND		COAL	1.5	671.0	
-	BOND		GRAY SHALE	10.0	672.5	
-	BOND		LIMESTONE	1.5	682.5	
-	BOND		SHALE & SANDSTONE	28.0	684.0	
-	BOND		COAL	2.0	712.0	
-	BOND		GRAY SHALE	45.0	714.0	
-	BOND	CARTHAGE	LIMESTONE	6.0	759.0	
-	MODESTO	NEW HAVEN	BLACK SHALE & CLAY	11.0	765.0	
-	MODESTO		GRAY SHALE	64.0	776.0	
-	MODESTO	CHAPEL	BLACK SHALE	2.5	840.0	ACCORDING TO GAMMA LOG
-	MODESTO		GRAY SHALE	27.5	842.5	
-	MODESTO		SHALE	2.0	870.0	
-	MODESTO		DARK SHALE	2.0	872.0	
-	MODESTO		UNDERCLAY	2.0	874.0	
-	MODESTO		LIMESTONE	0.5	876.0	
-	MODESTO		GRAY SHALE	83.5	876.5	
-	MODESTO		SHALE & SANDSTONE	20.0	960.0	
-	MODESTO		GRAY SHALE	35.0	980.0	
-	MODESTO		SANDSTONE	4.0	1015.0	
-	MODESTO		GRAY SHALE	51.0	1019.0	
-	MODESTO		DARK SHALE	13.0	1070.0	
-	MODESTO		GRAY SHALE	31.0	1083.0	
-	CARBONDALE	DANVILLE	COAL	3.0	1114.0	
-	CARBONDALE		GRAY SHALE	24.0	1117.0	CORE #1 1141-1156
-	CARBONDALE		GRAY SHALE	15.0	1141.0	CORE #1 1141-1156
-	CARBONDALE		GRAY SHALE	1.6	1156.0	CORE #2 1156-1171
-	CARBONDALE		PYRITE	0.1	1157.6	
-	CARBONDALE	CONANT	LIMESTONE	2.2	1157.6	
-	CARBONDALE	JAMESTOWN	COAL	3.8	1159.8	
-	CARBONDALE		BLACK SHALE	4.1	1163.6	
-	CARBONDALE	BRERETON	LIMESTONE	3.3	1167.7	
-	CARBONDALE	BRERETON	LIMESTONE	0.2	1171.0	CORE #3 1171-1186
-	CARBONDALE	HERRIN	COAL	3.3	1171.2	
-	CARBONDALE	HERRIN	CLAYSTONE & SHALE	0.3	1174.5	
-	CARBONDALE	HERRIN	COAL	2.5	1174.8	
-	CARBONDALE		UNDERCLAY	1.2	1177.3	
-	CARBONDALE		SHALE	7.5	1178.5	
-	CARBONDALE		GRAY SHALE	1.9	1186.0	CORE #4 1186-1193

-	CARBONDALE		SHALE & SANDSTONE	1.2	1187.9	
-	CARBONDALE		SANDSTONE	0.1	1189.1	
-	CARBONDALE		GRAY SHALE	2.7	1189.2	
-	CARBONDALE		CORE LOSS	1.2	1191.8	CORE LOSS
-	CARBONDALE		GRAY SHALE	4.8	1193.0	
-	CARBONDALE	BRIAR HILL	COAL	2.5	1197.8	
-	CARBONDALE		SHALE	5.4	1200.3	
-	CARBONDALE	ST. DAVID	LIMESTONE	0.6	1205.7	
-	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	1206.3	
-	CARBONDALE	SPRINGFIELD	COAL	4.2	1207.0	
-	CARBONDALE		UNDERCLAY	3.8	1211.2	
-	CARBONDALE		GRAY SHALE	5.0	1215.0	
-	CARBONDALE		SHALE & SANDSTONE	26.0	1220.0	
-	CARBONDALE		SHALE	36.0	1246.0	
-	CARBONDALE	HOUCHIN CREEK	BLACK SHALE & CLAY	4.0	1282.0	
-	CARBONDALE		UNDERCLAY	4.0	1286.0	
-	CARBONDALE		GRAY SHALE	26.0	1290.0	
-	CARBONDALE		SHALE & SANDSTONE	4.0	1316.0	
-	CARBONDALE		GRAY SHALE	38.0	1320.0	
-	CARBONDALE	SURVANT - UPPER	COAL	1.0	1358.0	
-	CARBONDALE		GRAY SHALE	34.5	1359.0	
-	CARBONDALE	SURVANT - LOWER	COAL	0.7	1393.5	
-	CARBONDALE		GRAY SHALE	31.8	1394.2	
-	CARBONDALE		GRAY SHALE	2.8	1426.0	CORE #5 1426-1441
-	CARBONDALE		LIMESTONE	0.4	1428.8	
-	CARBONDALE		DARK SHALE	2.1	1429.2	
-	CARBONDALE		PYRITE	0.1	1431.3	
-	CARBONDALE	COLCHESTER	COAL	1.6	1431.4	
-	SPOON		UNDERCLAY	0.6	1432.9	
-	SPOON		UNDERCLAY	2.1	1433.5	
-	SPOON		PYRITE	0.1	1435.6	
-	SPOON		COAL	1.0	1435.7	
-	SPOON		UNDERCLAY	2.3	1436.7	
-	SPOON		CORE LOSS	2.0	1439.0	
-	SPOON		UNDERCLAY	1.7	1441.0	CORE #6 1441-1455.6
-	SPOON		SHALE	4.6	1442.7	
-	SPOON	SEELYVILLE	COAL	3.1	1447.3	
-	SPOON	SEELYVILLE	BLACK SHALE	0.2	1450.3	
-	SPOON	SEELYVILLE	COAL	4.5	1450.5	
-	SPOON		PYRITE	0.7	1454.9	
-	SPOON		UNDERCLAY	3.9	1455.6	CORE #7 1455.6-1470.6
-	SPOON		GRAY SHALE	4.2	1459.5	
-	SPOON		COAL	0.4	1463.7	
-	SPOON		SHALE/COAL	1.2	1464.1	
-	SPOON		GRAY SHALE	0.7	1465.3	
-	SPOON		SANDSTONE	4.5	1466.0	

MAPID: 07900460000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 1 QUARTERS/FOOTAGES: NE NE NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.038117 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.995009 DATE COLLECTED:
SURFACE ELEVATION (FT.): 495.0 LOGGED (FT.): 1289.5 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	BOND	CARTHAGE	LIMESTONE	6.0	619.0
-421.0	CARBONDALE	DANVILLE	COAL	3.0	916.0
-470.0	CARBONDALE	HERRIN	COAL	5.0	965.0
-520.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1015.0
-605.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1100.0
-755.0	CARBONDALE	COLCHESTER	COAL	-	1250.0
-788.0	SPOON	SEELYVILLE	COAL	6.5	1283.0

MAPID: 07900461000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 1 QUARTERS/FOOTAGES: 395' N line, 330' E line of SE NW
QUADRANGLE: STE. MARIE LONGITUDE: -88.047405 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.991028 DATE COLLECTED:
SURFACE ELEVATION (FT.): 495.0 LOGGED (FT.): 1251.0 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
-123.0	BOND	CARTHAGE	LIMESTONE	6.0	618.0
-319.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	814.0
-427.0	CARBONDALE	DANVILLE	COAL	2.5	922.0
-481.0	CARBONDALE	HERRIN	COAL	-	976.0
-527.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1022.0
-615.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1110.0
-733.0	CARBONDALE	COLCHESTER	COAL	-	1228.0
-751.0	SPOON	SEELYVILLE	COAL	5.0	1246.0

MAPID: 07900462000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 2 QUARTERS/FOOTAGES: 470' S line, 990' W line of NW SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.071055 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.985435 DATE COLLECTED:
SURFACE ELEVATION (FT.): 512.0 LOGGED (FT.): 1283.0 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
-294.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	806.0
-432.0	CARBONDALE	DANVILLE	COAL	-	944.0
-485.0	CARBONDALE	HERRIN	COAL	-	997.0
-535.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1047.0
-622.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1134.0
-744.0	CARBONDALE	COLCHESTER	COAL	-	1256.0
-766.0	SPOON	SEELYVILLE	COAL	5.0	1278.0

MAPID: 07900463000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 2 QUARTERS/FOOTAGES: NW NE NW
QUADRANGLE: STE. MARIE LONGITUDE: -88.068571 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.994963 DATE COLLECTED:
SURFACE ELEVATION (FT.): 519.0 LOGGED (FT.): 1275.0 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	BOND	CARTHAGE	LIMESTONE	6.0	645.0
-302.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	821.0
-425.0	CARBONDALE	DANVILLE	COAL	-	944.0
-476.0	CARBONDALE	HERRIN	COAL	-	995.0
-519.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1038.0
-609.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1128.0
-731.0	CARBONDALE	COLCHESTER	COAL	-	1250.0
-751.0	SPOON	SEELYVILLE	COAL	5.0	1270.0

MAPID: 07900211000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 3 QUARTERS/FOOTAGES: 330' N line, 2280' W line of NW

QUADRANGLE: STE. MARIE LONGITUDE: -88.08502 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.995076 DATE COLLECTED:

SURFACE ELEVATION (FT.): 502.0 LOGGED (FT.): 1266.0 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
-338.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	840.0
-434.0	CARBONDALE	DANVILLE	COAL	2.0	936.0
-488.0	CARBONDALE	HERRIN	COAL	3.5	990.0
-532.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1034.0
-615.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1117.0
-740.0	CARBONDALE	COLCHESTER	COAL	-	1242.0
-760.0	SPOON	SEELYVILLE	COAL	4.0	1262.0

MAPID: 07900211000C VERSION: 2 PROJECT: CONTROL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 3 QUARTERS/FOOTAGES: 330' N line, 2280' W line of NW

QUADRANGLE: STE. MARIE LONGITUDE: -88.08502 GEOLOGIST: HINES

CONFIDENTIAL: N LATITUDE: 38.995076 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 3025.0 LOG TYPE: Survey Sample Study

SOURCE: PURE OIL CO. 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: 07901620000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 3 QUARTERS/FOOTAGES: NE SE NW
QUADRANGLE: STE. MARIE LONGITUDE: -88.08496 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.991022 DATE COLLECTED:
SURFACE ELEVATION (FT.): 478.0 LOGGED (FT.): 1257.0 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
-147.0	BOND	CARTHAGE	LIMESTONE	5.0	625.0
-305.0	MODESTO	WEST FRANKLIN	LIMESTONE	18.0	783.0
-443.0	CARBONDALE	DANVILLE	COAL	2.0	921.0
-497.0	CARBONDALE	HERRIN	COAL	4.0	975.0
-547.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1025.0
-633.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1111.0
-755.0	CARBONDALE	COLCHESTER	COAL	-	1233.0
-775.0	SPOON	SEELYVILLE	COAL	4.0	1253.0

MAPID: 07901623000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 3 QUARTERS/FOOTAGES: SW SW SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.091829 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.981088 DATE COLLECTED:
SURFACE ELEVATION (FT.): 478.0 LOGGED (FT.): 1274.0 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
-147.0	BOND	CARTHAGE	LIMESTONE	4.0	625.0
-321.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	799.0
-450.0	CARBONDALE	DANVILLE	COAL	2.0	928.0
-502.0	CARBONDALE	HERRIN	COAL	4.0	980.0
-547.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1025.0
-639.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1117.0
-759.0	CARBONDALE	COLCHESTER	COAL	-	1237.0
-791.0	SPOON	SEELYVILLE	COAL	5.0	1269.0

MAPID: 07900226000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 4 QUARTERS/FOOTAGES: 330' S line, 660' E line of SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.104776 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.980747 DATE COLLECTED:
SURFACE ELEVATION (FT.): 481.0 LOGGED (FT.): 1261.0 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
-148.0	BOND	CARTHAGE	LIMESTONE	6.0	629.0
-357.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	838.0
-451.0	CARBONDALE	DANVILLE	COAL	-	932.0
-511.0	CARBONDALE	HERRIN	COAL	4.0	992.0
-555.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1036.0
-635.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1116.0
-767.0	CARBONDALE	COLCHESTER	COAL	-	1248.0
-776.0	SPOON	SEELYVILLE	COAL	4.0	1257.0

MAPID: 07900471000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 4 QUARTERS/FOOTAGES: NW SE NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.0966 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.99098 DATE COLLECTED:
SURFACE ELEVATION (FT.): 515.0 LOGGED (FT.): 1310.0 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
-154.0	BOND	CARTHAGE	LIMESTONE	4.0	669.0
-318.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	833.0
-457.0	CARBONDALE	DANVILLE	COAL	2.0	972.0
-515.0	CARBONDALE	HERRIN	COAL	3.0	1030.0
-555.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1070.0
-650.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1165.0
-771.0	CARBONDALE	COLCHESTER	COAL	2.5	1286.0
-790.0	SPOON	SEELYVILLE	COAL	5.0	1305.0

MAPID: 07901640000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 4 QUARTERS/FOOTAGES: SE SE NW
QUADRANGLE: STE. MARIE LONGITUDE: -88.103681 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.988923 DATE COLLECTED:
SURFACE ELEVATION (FT.): 483.0 LOGGED (FT.): 1263.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-147.0	BOND	CARTHAGE	LIMESTONE	4.0	630.0
-355.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	838.0
-445.0	CARBONDALE	DANVILLE	COAL	1.5	928.0
-504.0	CARBONDALE	HERRIN	COAL	4.0	987.0
-546.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1029.0
-627.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1110.0
-753.0	CARBONDALE	COLCHESTER	COAL	2.5	1236.0
-775.0	SPOON	SEELYVILLE	COAL	5.0	1258.0

MAPID: 07901210000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 5 QUARTERS/FOOTAGES: NE NE NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.113165 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.994945 DATE COLLECTED:
SURFACE ELEVATION (FT.): 538.0 LOGGED (FT.): 1327.0 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
-160.0	BOND	CARTHAGE	LIMESTONE	4.0	698.0
-342.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	880.0
-464.0	CARBONDALE	DANVILLE	COAL	-	1002.0
-519.0	CARBONDALE	HERRIN	COAL	-	1057.0
-551.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1089.0
-636.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1174.0
-767.0	CARBONDALE	COLCHESTER	COAL	-	1305.0
-785.0	SPOON	SEELYVILLE	COAL	4.0	1323.0

MAPID: 07901648000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 6N 10E **SECTION:** 5 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: STE. MARIE **LONGITUDE:** -88.120144 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.986659 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 475.0 **LOGGED (FT.):** 1264.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: SPLT, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-151.0	BOND	CARTHAGE	LIMESTONE	6.0	626.0
-313.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	788.0
-461.0	CARBONDALE	DANVILLE	COAL	-	936.0
-510.0	CARBONDALE	HERRIN	COAL	4.0	985.0
-556.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1031.0
-635.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1110.0
-765.0	CARBONDALE	COLCHESTER	COAL	-	1240.0
-785.0	SPOON	SEELYVILLE	COAL	4.0	1260.0

MAPID: 07901142000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 6N 10E **SECTION:** 6 **QUARTERS/FOOTAGES:** 330' S line, 230' E line of NE SW
QUADRANGLE: NEWTON **LONGITUDE:** -88.141893 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.983884 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 525.0 **LOGGED (FT.):** 1350.0 **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
-180.0	BOND	CARTHAGE	LIMESTONE	6.0	705.0
-345.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	870.0
-501.0	CARBONDALE	DANVILLE	COAL	1.5	1026.0
-559.0	CARBONDALE	HERRIN	COAL	4.0	1084.0
-600.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1125.0
-675.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1200.0
-792.0	CARBONDALE	COLCHESTER	COAL	-	1317.0
-820.0	SPOON	SEELYVILLE	COAL	5.0	1345.0

MAPID: 07900525000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 7 QUARTERS/FOOTAGES: NW SE NE
QUADRANGLE: NEWTON LONGITUDE: -88.134555 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.974596 DATE COLLECTED:
SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 1293.5 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
-173.0	BOND	CARTHAGE	LIMESTONE	6.0	648.0
-339.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	814.0
-485.0	CARBONDALE	DANVILLE	COAL	-	960.0
-549.0	CARBONDALE	HERRIN	COAL	3.5	1024.0
-587.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1062.0
-663.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1138.0
-795.0	CARBONDALE	COLCHESTER	COAL	-	1270.0
-813.0	SPOON	SEELYVILLE	COAL	5.5	1288.0

MAPID: 07900142000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 8 QUARTERS/FOOTAGES: NE SE NW
QUADRANGLE: STE. MARIE LONGITUDE: -88.122457 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.974834 DATE COLLECTED:
SURFACE ELEVATION (FT.): 521.0 LOGGED (FT.): 1309.0 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	BOND	CARTHAGE	LIMESTONE	5.0	672.0
-317.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	838.0
-461.0	CARBONDALE	DANVILLE	COAL	1.5	982.0
-517.0	CARBONDALE	HERRIN	COAL	4.0	1038.0
-551.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1072.0
-632.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1153.0
-757.0	CARBONDALE	COLCHESTER	COAL	-	1278.0
-783.0	SPOON	SEELYVILLE	COAL	5.0	1304.0

MAPID: 07900473000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 6N 10E

SECTION: 8

QUARTERS/FOOTAGES: NW SW SW

QUADRANGLE: NEWTON

LONGITUDE: -88.129556

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.967494

DATE COLLECTED:

SURFACE ELEVATION (FT.): 526.0

LOGGED (FT.): 1329.0

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
-167.0	BOND	CARTHAGE	LIMESTONE	5.0	693.0
-355.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	881.0
-470.0	CARBONDALE	DANVILLE	COAL	2.0	996.0
-531.0	CARBONDALE	HERRIN	COAL	-	1057.0
-573.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1099.0
-648.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1174.0
-777.0	CARBONDALE	COLCHESTER	COAL	-	1303.0
-797.0	SPOON	SEELYVILLE	COAL	6.0	1323.0

MAPID: 07923160000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 8 QUARTERS/FOOTAGES: 2298' S line, 1218' W line

QUADRANGLE: NEWTON LONGITUDE: -88.126391 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 38.971134 DATE COLLECTED: 10 / 22 / 1979

SURFACE ELEVATION (FT.): 530.0 LOGGED (FT.): 1150.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. IG-79-8-17 WELL TYPE: Coal Test

COMMENT: GAMMA, DENS, & RESIST. LOGS & DRILL LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
530.0			UNCONSOLIDATED	74.0	0.0	
456.0	MATTOON		GRAY SHALE	5.0	74.0	
451.0	MATTOON		LIMESTONE	1.0	79.0	
450.0	MATTOON		GRAY SHALE	14.0	80.0	
436.0	MATTOON		DARK SHALE	12.0	94.0	
424.0	MATTOON		GRAY SHALE	5.0	106.0	
419.0	MATTOON		LIMESTONE AND SANDSTONE	3.0	111.0	
416.0	MATTOON		SANDSTONE/SHALE	3.0	114.0	
413.0	MATTOON		GRAY SHALE	10.0	117.0	
403.0	MATTOON		LIMESTONE/SHALE/SANDS TONE	7.0	127.0	
396.0	MATTOON		DARK SHALE	8.0	134.0	
388.0	MATTOON		GRAY SHALE	38.0	142.0	
350.0	MATTOON		LIMESTONE	1.0	180.0	
349.0	MATTOON		SANDSTONE	49.0	181.0	
300.0	MATTOON		SANDSTONE/SHALE	10.0	230.0	
290.0	MATTOON		GRAY SHALE	88.0	240.0	
202.0	MATTOON		BLACK SHALE	4.0	328.0	
198.0	MATTOON		GRAY SHALE	2.0	332.0	
196.0	MATTOON		LIMESTONE	2.0	334.0	
194.0	MATTOON		LIMESTONE AND SANDSTONE	5.0	336.0	
189.0	MATTOON		GRAY SHALE	19.0	341.0	
170.0	MATTOON		SANDSTONE	36.0	360.0	
134.0	MATTOON		GRAY SHALE	21.0	396.0	
113.0	MATTOON		COAL	2.0	417.0	
111.0	MATTOON		DARK SHALE	1.0	419.0	
110.0	MATTOON		LIMESTONE	1.0	420.0	
109.0	MATTOON		SANDSTONE	15.0	421.0	
94.0	MATTOON		GRAY SHALE	24.0	436.0	
70.0	MATTOON		BLACK SHALE & CLAY	3.0	460.0	
67.0	MATTOON		LIMESTONE	2.0	463.0	
65.0	MATTOON		SANDSTONE	5.0	465.0	
60.0	MATTOON		GRAY SHALE	12.5	470.0	
47.5	MATTOON		LIMESTONE	1.5	482.5	
46.0	MATTOON		GRAY SHALE	11.0	484.0	TOP OF BOND ABOUT 495'
35.0	BOND		GRAY SHALE	41.0	495.0	TOP OF BOND ABOUT 495'
-6.0	BOND		COAL	2.0	536.0	
-8.0	BOND		GRAY SHALE	10.0	538.0	

-18.0	BOND		LIMESTONE	1.7	548.0	
-19.7	BOND		SANDSTONE	2.3	549.7	
-22.0	BOND		DARK SHALE	4.0	552.0	
-26.0	BOND		COAL	1.0	556.0	
-27.0	BOND		GRAY SHALE	11.0	557.0	
-38.0	BOND		COAL	2.0	568.0	
-40.0	BOND		GRAY SHALE	35.0	570.0	
-75.0	BOND		SANDSTONE & BLACK SHALE	14.0	605.0	
-89.0	BOND		GRAY SHALE	39.0	619.0	
-128.0	BOND		BLACK SHALE & CLAY	5.0	658.0	
-133.0	BOND		SANDSTONE	29.0	663.0	
-162.0	BOND		SHALE & SANDSTONE	5.0	692.0	
-167.0	BOND	CARTHAGE	LIMESTONE	5.5	697.0	
-172.5	MODESTO	NEW HAVEN	COAL	0.7	702.5	
-173.2	MODESTO		GRAY SHALE	16.8	703.2	
-190.0	MODESTO		GRAY SHALE	51.0	720.0	
-241.0	MODESTO	CHAPEL	COAL	2.0	771.0	
-243.0	MODESTO		GRAY SHALE	106.0	773.0	
-349.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.5	879.0	
-357.5	MODESTO	WEST FRANKLIN	GRAY SHALE	0.5	887.5	
-358.0	MODESTO	WEST FRANKLIN	SANDSTONE/SHALE	2.5	888.0	
-360.5	MODESTO	WEST FRANKLIN	LIMESTONE	7.5	890.5	
-368.0	MODESTO		GRAY SHALE	127.0	898.0	
-495.0	CARBONDALE	DANVILLE	BONE COAL	2.5	1025.0	"SMUT"
-497.5	CARBONDALE		GRAY SHALE	11.5	1027.5	
-509.0	CARBONDALE		LIMESTONE	0.7	1039.0	
-509.7	CARBONDALE		GRAY SHALE	33.3	1039.7	
-543.0	CARBONDALE	CONANT	LIMESTONE	2.5	1073.0	
-545.5	CARBONDALE		SHALE	1.0	1075.5	AND "SMUT"
-546.5	CARBONDALE	JAMESTOWN	COAL	2.0	1076.5	AND "SMUT"
-548.5	CARBONDALE		UNDERCLAY	4.0	1078.5	
-552.5	CARBONDALE	HERRIN	COAL	5.5	1082.5	
-558.0	CARBONDALE		GRAY SHALE	18.0	1088.0	
-576.0	CARBONDALE	BRIAR HILL	COAL	2.0	1106.0	
-578.0	CARBONDALE		GRAY SHALE	16.0	1108.0	
-594.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1124.0	
-597.5	CARBONDALE		GRAY SHALE	22.5	1127.5	
-620.0	CARBONDALE		UNCLASSIFIED	0.0	1150.0	

MAPID: 07900227000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 9 QUARTERS/FOOTAGES: 2316' S line, 1649' W line
QUADRANGLE: STE. MARIE LONGITUDE: -88.106075 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.97134 DATE COLLECTED:
SURFACE ELEVATION (FT.): 527.0 LOGGED (FT.): 1314.0 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	BOND	CARTHAGE	LIMESTONE	5.0	670.0
-350.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	877.0
-449.0	CARBONDALE	DANVILLE	COAL	-	976.0
-511.0	CARBONDALE	HERRIN	COAL	4.0	1038.0
-558.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1085.0
-635.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1162.0
-763.0	CARBONDALE	COLCHESTER	COAL	-	1290.0
-783.0	SPOON	SEELYVILLE	COAL	4.0	1310.0

MAPID: 07901680000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 9 QUARTERS/FOOTAGES: SW SE SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.096947 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.966117 DATE COLLECTED:
SURFACE ELEVATION (FT.): 521.0 LOGGED (FT.): 1302.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-147.0	BOND	CARTHAGE	LIMESTONE	6.0	668.0
-331.0	MODESTO	WEST FRANKLIN	LIMESTONE	23.0	852.0
-439.0	CARBONDALE	DANVILLE	COAL	2.0	960.0
-497.0	CARBONDALE	HERRIN	COAL	4.0	1018.0
-549.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1070.0
-629.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0
-757.0	CARBONDALE	COLCHESTER	COAL	-	1278.0
-775.0	SPOON	SEELYVILLE	COAL	6.0	1296.0

MAPID: 07900238000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 10 QUARTERS/FOOTAGES: 998' N line, 667' W line
QUADRANGLE: STE. MARIE LONGITUDE: -88.090715 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.977342 DATE COLLECTED:
SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 1257.5 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
-143.0	BOND	CARTHAGE	LIMESTONE	6.0	622.0
-312.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	791.0
-451.0	CARBONDALE	DANVILLE	COAL	-	930.0
-507.0	CARBONDALE	HERRIN	COAL	4.5	986.0
-557.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1036.0
-645.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1124.0
-761.0	CARBONDALE	COLCHESTER	COAL	-	1240.0
-775.0	SPOON	SEELYVILLE	COAL	3.5	1254.0

MAPID: 07900356000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 11 QUARTERS/FOOTAGES: SW NW SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.073588 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.970126 DATE COLLECTED:
SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 1255.0 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	BOND	CARTHAGE	LIMESTONE	6.0	614.0
-337.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	812.0
-440.0	CARBONDALE	DANVILLE	COAL	2.0	915.0
-499.0	CARBONDALE	HERRIN	COAL	2.5	974.0
-545.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1020.0
-640.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1115.0
-755.0	CARBONDALE	COLCHESTER	COAL	-	1230.0
-777.0	SPOON	SEELYVILLE	COAL	3.0	1252.0

MAPID: 07901232000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 11 QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: STE. MARIE LONGITUDE: -88.061812 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.974051 DATE COLLECTED:

SURFACE ELEVATION (FT.): 473.0 LOGGED (FT.): 1259.5 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
-142.0	BOND	CARTHAGE	LIMESTONE	5.0	615.0
-315.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	788.0
-452.0	CARBONDALE	DANVILLE	COAL	2.0	925.0
-509.0	CARBONDALE	HERRIN	COAL	3.5	982.0
-557.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1030.0
-643.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1116.0
-767.0	CARBONDALE	COLCHESTER	COAL	-	1240.0
-784.0	SPOON	SEELYVILLE	COAL	2.5	1257.0

MAPID: 07901687000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 11 QUARTERS/FOOTAGES: 438' N line, 230' W line

QUADRANGLE: STE. MARIE LONGITUDE: -88.073769 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 38.978908 DATE COLLECTED:

SURFACE ELEVATION (FT.): 475.0 LOGGED (FT.): 1106.0 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	BOND	CARTHAGE	LIMESTONE	7.0	603.0
-303.0	MODESTO	WEST FRANKLIN	LIMESTONE	18.0	778.0
-438.0	CARBONDALE	DANVILLE	COAL	2.5	913.0
-491.0	CARBONDALE	HERRIN	COAL	-	966.0
-542.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1017.0
-631.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1106.0

MAPID: 07900982000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 12 QUARTERS/FOOTAGES: SW NW SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.054835 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.970549 DATE COLLECTED:
SURFACE ELEVATION (FT.): 471.0 LOGGED (FT.): 1237.0 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
-117.0	BOND	CARTHAGE	LIMESTONE	5.0	588.0
-419.0	CARBONDALE	DANVILLE	COAL	-	890.0
-477.0	CARBONDALE	HERRIN	COAL	-	948.0
-526.0	CARBONDALE	SPRINGFIELD	COAL	3.0	997.0
-609.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1080.0
-739.0	CARBONDALE	COLCHESTER	COAL	-	1210.0
-762.0	SPOON	SEELYVILLE	COAL	4.0	1233.0

MAPID: 07900357000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 13 QUARTERS/FOOTAGES: SE SW SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.052607 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.952483 DATE COLLECTED:
SURFACE ELEVATION (FT.): 490.0 LOGGED (FT.): 1332.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-137.0	BOND	CARTHAGE	LIMESTONE	5.0	627.0
-312.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	802.0
-437.0	CARBONDALE	DANVILLE	COAL	-	927.0
-490.0	CARBONDALE	HERRIN	COAL	2.0	980.0
-545.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1035.0
-628.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1118.0
-767.0	CARBONDALE	COLCHESTER	COAL	-	1257.0
-838.0	SPOON	SEELYVILLE	COAL	4.0	1328.0

MAPID: 07900763000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 14 QUARTERS/FOOTAGES: NW SW NW
QUADRANGLE: STE. MARIE LONGITUDE: -88.073731 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.961099 DATE COLLECTED:
SURFACE ELEVATION (FT.): 498.0 LOGGED (FT.): 1283.0 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	BOND	CARTHAGE	LIMESTONE	6.0	637.0
-441.0	CARBONDALE	DANVILLE	COAL	-	939.0
-504.0	CARBONDALE	HERRIN	COAL	3.0	1002.0
-553.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1051.0
-639.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1137.0
-761.0	CARBONDALE	COLCHESTER	COAL	-	1259.0
-781.0	SPOON	SEELYVILLE	COAL	4.0	1279.0

MAPID: 07901302000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 15 QUARTERS/FOOTAGES: NE NW SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.090112 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.957328 DATE COLLECTED:
SURFACE ELEVATION (FT.): 515.0 LOGGED (FT.): 1265.0 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
-135.0	BOND	CARTHAGE	LIMESTONE	4.0	650.0
-304.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	819.0
-440.0	CARBONDALE	DANVILLE	COAL	-	955.0
-495.0	CARBONDALE	HERRIN	COAL	-	1010.0
-548.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1063.0
-625.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1140.0
-750.0	CARBONDALE	COLCHESTER	COAL	-	1265.0

MAPID: 07900477000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 16 QUARTERS/FOOTAGES: 1320' N line, 330' W line of NE NW
QUADRANGLE: STE. MARIE LONGITUDE: -88.106159 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.961307 DATE COLLECTED:
SURFACE ELEVATION (FT.): 532.0 LOGGED (FT.): 1301.0 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	BOND	CARTHAGE	LIMESTONE	6.0	662.0
-307.0	MODESTO	WEST FRANKLIN	LIMESTONE	22.0	839.0
-438.0	CARBONDALE	DANVILLE	COAL	-	970.0
-499.0	CARBONDALE	HERRIN	COAL	4.0	1031.0
-538.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1070.0
-618.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0
-748.0	CARBONDALE	COLCHESTER	COAL	-	1280.0
-765.0	SPOON	SEELYVILLE	COAL	4.0	1297.0

MAPID: 07900526000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 16 QUARTERS/FOOTAGES: SE NE SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.103918 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.955121 DATE COLLECTED:
SURFACE ELEVATION (FT.): 534.0 LOGGED (FT.): 1289.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-127.0	BOND	CARTHAGE	LIMESTONE	5.0	661.0
-308.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	842.0
-442.0	CARBONDALE	DANVILLE	COAL	-	976.0
-491.0	CARBONDALE	HERRIN	COAL	2.0	1025.0
-540.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1074.0
-606.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1140.0
-732.0	CARBONDALE	COLCHESTER	COAL	-	1266.0
-752.0	SPOON	SEELYVILLE	COAL	3.0	1286.0

MAPID: 07904017000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 6N 10E **SECTION:** 16 **QUARTERS/FOOTAGES:** NE SE NE
QUADRANGLE: STE. MARIE **LONGITUDE:** -88.094722 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.960805 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 522.0 **LOGGED (FT.):** 1278.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-126.0	BOND	CARTHAGE	LIMESTONE	5.0	648.0
-285.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	807.0
-430.0	CARBONDALE	DANVILLE	COAL	2.0	952.0
-483.0	CARBONDALE	HERRIN	COAL	4.0	1005.0
-538.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1060.0
-618.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1140.0
-735.0	CARBONDALE	COLCHESTER	COAL	-	1257.0
-753.0	SPOON	SEELYVILLE	COAL	3.0	1275.0

MAPID: 07900009000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 6N 10E **SECTION:** 17 **QUARTERS/FOOTAGES:** 644' S line, 658' W line of SW
QUADRANGLE: NEWTON **LONGITUDE:** -88.128418 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 38.951715 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 523.0 **LOGGED (FT.):** 1330.0 **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	BOND	CARTHAGE	LIMESTONE	6.0	686.0
-342.0	MODESTO	WEST FRANKLIN	LIMESTONE	20.0	865.0
-487.0	CARBONDALE	DANVILLE	COAL	-	1010.0
-542.0	CARBONDALE	HERRIN	COAL	-	1065.0
-587.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1110.0
-654.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1177.0
-781.0	CARBONDALE	COLCHESTER	COAL	-	1304.0
-803.0	SPOON	SEELYVILLE	COAL	4.0	1326.0

MAPID: 07900009000C **VERSION:** 2 **PROJECT:** CONTROL
COUNTY: JASPER **TWP/RNG:** 6N 10E **SECTION:** 17 **QUARTERS/FOOTAGES:** 644' S line, 658' W line of SW
QUADRANGLE: NEWTON **LONGITUDE:** -88.128418 **GEOLOGIST:** HINES
CONFIDENTIAL: N **LATITUDE:** 38.951715 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): **LOGGED (FT.):** 2885.0 **LOG TYPE:** Survey Sample Study
SOURCE: PURE OIL COMPANY **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: 07901701000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 6N 10E **SECTION:** 17 **QUARTERS/FOOTAGES:** NE SE NW
QUADRANGLE: STE. MARIE **LONGITUDE:** -88.122512 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 38.960188 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 526.0 **LOGGED (FT.):** 1306.0 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		UNIT	OVERBURDEN	COMMENT
-156.0	BOND	CARTHAGE	LIMESTONE	6.0	682.0			
-360.0	MODESTO	WEST FRANKLIN	LIMESTONE	18.0	886.0			
-451.0	CARBONDALE	DANVILLE	COAL	1.5	977.0			
-516.0	CARBONDALE	HERRIN	COAL	3.5	1042.0			
-558.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1084.0			
-634.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1160.0			
-759.0	CARBONDALE	COLCHESTER	COAL	-	1285.0			
-777.0	SPOON	SEELYVILLE	COAL	3.0	1303.0			

MAPID: 07901705000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 6N 10E **SECTION:** 17 **QUARTERS/FOOTAGES:** SW NE SE
QUADRANGLE: STE. MARIE **LONGITUDE:** -88.115449 **GEOLOGIST:** C TREWORYG
CONFIDENTIAL: N **LATITUDE:** 38.954764 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 524.0 **LOGGED (FT.):** 1306.0 **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
-523.0	CARBONDALE	HERRIN	COAL	-	1047.0			
-569.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1093.0			
-639.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1163.0			
-766.0	CARBONDALE	COLCHESTER	COAL	-	1290.0			
-779.0	SPOON	SEELYVILLE	COAL	3.0	1303.0			

MAPID: 07900161000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 18 QUARTERS/FOOTAGES: NE NE SE
QUADRANGLE: NEWTON LONGITUDE: -88.132034 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.956388 DATE COLLECTED:
SURFACE ELEVATION (FT.): 527.0 LOGGED (FT.): 1300.0 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	BOND	CARTHAGE	LIMESTONE	5.0	683.0
-328.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	855.0
-478.0	CARBONDALE	DANVILLE	COAL	-	1005.0
-536.0	CARBONDALE	HERRIN	COAL	3.0	1063.0
-573.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1100.0
-648.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1175.0
-773.0	CARBONDALE	COLCHESTER	COAL	-	1300.0

MAPID: 07900215000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 19 QUARTERS/FOOTAGES: SE NE
QUADRANGLE: NEWTON LONGITUDE: -88.133446 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.944408 DATE COLLECTED:
SURFACE ELEVATION (FT.): 523.0 LOGGED (FT.): 1342.5 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
-175.0	BOND	CARTHAGE	LIMESTONE	5.0	698.0
-357.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	880.0
-495.0	CARBONDALE	DANVILLE	COAL	-	1018.0
-511.0	CARBONDALE	HERRIN	COAL	3.5	1034.0
-557.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1080.0
-667.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1190.0
-794.0	CARBONDALE	COLCHESTER	COAL	-	1317.0
-815.0	SPOON	SEELYVILLE	COAL	4.5	1338.0

MAPID: 07900166000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 20 QUARTERS/FOOTAGES: 1972' S line, 1977' W line of SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.124039 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.941078 DATE COLLECTED:
SURFACE ELEVATION (FT.): 517.0 LOGGED (FT.): 1292.0 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	BOND	CARTHAGE	LIMESTONE	6.0	667.0
-453.0	CARBONDALE	DANVILLE	COAL	-	970.0
-516.0	CARBONDALE	HERRIN	COAL	4.5	1033.0
-556.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1073.0
-628.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1145.0
-749.0	CARBONDALE	COLCHESTER	COAL	-	1266.0
-772.0	SPOON	SEELYVILLE	COAL	3.0	1289.0

MAPID: 07900212000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 20 QUARTERS/FOOTAGES: 660' N line, 660' W line of SW
QUADRANGLE: NEWTON LONGITUDE: -88.128698 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.940895 DATE COLLECTED:
SURFACE ELEVATION (FT.): 514.0 LOGGED (FT.): 1285.0 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	BOND	CARTHAGE	LIMESTONE	6.0	666.0
-378.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	892.0
-456.0	CARBONDALE	DANVILLE	COAL	-	970.0
-517.0	CARBONDALE	HERRIN	COAL	-	1031.0
-557.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1071.0
-629.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1143.0
-749.0	CARBONDALE	COLCHESTER	COAL	-	1263.0
-768.0	SPOON	SEELYVILLE	COAL	3.0	1282.0

MAPID: 07900239000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 20 QUARTERS/FOOTAGES: NW NE SE

QUADRANGLE: STE. MARIE LONGITUDE: -88.115671 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.942141 DATE COLLECTED:

SURFACE ELEVATION (FT.): 507.0 LOGGED (FT.): 1280.0 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
-156.0	BOND	CARTHAGE	LIMESTONE	5.0	663.0
-463.0	CARBONDALE	DANVILLE	COAL	-	970.0
-523.0	CARBONDALE	HERRIN	COAL	-	1030.0
-566.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1073.0
-643.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0
-773.0	CARBONDALE	COLCHESTER	COAL	-	1280.0

MAPID: 07900240000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 21 QUARTERS/FOOTAGES: SE SE SE

QUADRANGLE: STE. MARIE LONGITUDE: -88.09496 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.937337 DATE COLLECTED:

SURFACE ELEVATION (FT.): 509.0 LOGGED (FT.): 1292.0 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
-147.0	BOND	CARTHAGE	LIMESTONE	4.0	656.0
-330.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	839.0
-451.0	CARBONDALE	DANVILLE	COAL	-	960.0
-511.0	CARBONDALE	HERRIN	COAL	-	1020.0
-561.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1070.0
-633.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1142.0
-762.0	CARBONDALE	COLCHESTER	COAL	-	1271.0
-779.0	SPOON	SEELYVILLE	COAL	4.0	1288.0

MAPID: 07900742000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 21 QUARTERS/FOOTAGES: NW SE SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.106463 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.938823 DATE COLLECTED:
SURFACE ELEVATION (FT.): 518.0 LOGGED (FT.): 1302.0 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	BOND	CARTHAGE	LIMESTONE	5.0	657.0
-319.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	837.0
-442.0	CARBONDALE	DANVILLE	COAL	-	960.0
-503.0	CARBONDALE	HERRIN	COAL	4.0	1021.0
-551.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1069.0
-626.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1144.0
-747.0	CARBONDALE	COLCHESTER	COAL	-	1265.0
-782.0	SPOON	SEELYVILLE	COAL	2.0	1300.0

MAPID: 07900788000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 21 QUARTERS/FOOTAGES: SW NE NW
QUADRANGLE: STE. MARIE LONGITUDE: -88.106279 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.947827 DATE COLLECTED:
SURFACE ELEVATION (FT.): 525.0 LOGGED (FT.): 1332.0 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	BOND	CARTHAGE	LIMESTONE	5.0	695.0
-473.0	CARBONDALE	DANVILLE	COAL	-	998.0
-532.0	CARBONDALE	HERRIN	COAL	-	1057.0
-585.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1110.0
-661.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1186.0
-797.0	CARBONDALE	COLCHESTER	COAL	-	1322.0
-807.0	SPOON	SEELYVILLE	COAL	-	1332.0

MAPID: 07900552000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 22 QUARTERS/FOOTAGES: 660' N line, 660' W line of NW SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.082128 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.942068 DATE COLLECTED:
SURFACE ELEVATION (FT.): 513.0 LOGGED (FT.): 1308.0 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
-138.0	BOND	CARTHAGE	LIMESTONE	5.0	651.0
-450.0	CARBONDALE	DANVILLE	COAL	-	963.0
-510.0	CARBONDALE	HERRIN	COAL	3.0	1023.0
-561.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1074.0
-637.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0
-761.0	CARBONDALE	COLCHESTER	COAL	-	1274.0
-791.0	SPOON	SEELYVILLE	COAL	4.0	1304.0

MAPID: 07900792000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 22 QUARTERS/FOOTAGES: SW SE SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.088001 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.937446 DATE COLLECTED:
SURFACE ELEVATION (FT.): 514.0 LOGGED (FT.): 1308.0 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	BOND	CARTHAGE	LIMESTONE	5.0	663.0
-460.0	CARBONDALE	DANVILLE	COAL	-	974.0
-517.0	CARBONDALE	HERRIN	COAL	-	1031.0
-577.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1091.0
-645.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1159.0
-771.0	CARBONDALE	COLCHESTER	COAL	-	1285.0
-790.0	SPOON	SEELYVILLE	COAL	4.0	1304.0

MAPID: 07900807000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 6N 10E

SECTION: 23

QUARTERS/FOOTAGES: SW NE NE

QUADRANGLE: STE. MARIE

LONGITUDE: -88.059691

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.948758

DATE COLLECTED:

SURFACE ELEVATION (FT.): 482.0

LOGGED (FT.): 1267.0

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	
-137.0	BOND	CARTHAGE	LIMESTONE	5.0	619.0	
-448.0	CARBONDALE	DANVILLE	COAL	-	930.0	
-495.0	CARBONDALE	HERRIN	COAL	3.0	977.0	
-543.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1025.0	
-624.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1106.0	
-768.0	CARBONDALE	COLCHESTER	COAL	-	1250.0	
-779.0	SPOON	SEELYVILLE	COAL	6.0	1261.0	

MAPID: 07923272000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 23 QUARTERS/FOOTAGES: 1362' N line, 48' E line
 QUADRANGLE: STE. MARIE LONGITUDE: -88.056324 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 38.947783 DATE COLLECTED: 8 / 11 / 1980
 SURFACE ELEVATION (FT.): 492.0 LOGGED (FT.): 1295.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG8023-15C WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS, RESIST, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
492.0			UNCONSOLIDATED	40.0	0.0	
452.0	MATTOON		SHALE & SANDSTONE	16.0	40.0	
436.0	MATTOON		SANDSTONE	8.0	56.0	
428.0	MATTOON		GRAY SHALE	3.0	64.0	
425.0	MATTOON	SHUMWAY	LIMESTONE	11.4	67.0	
413.6	MATTOON	TEUTOPOLIS	BLACK SHALE	13.6	78.4	
400.0	MATTOON		GRAY SHALE	122.0	92.0	
278.0	MATTOON		SANDSTONE	44.0	214.0	
234.0	MATTOON		LIMESTONE	1.0	258.0	
233.0	MATTOON		SANDSTONE/SHALE	17.0	259.0	
216.0	MATTOON		SANDSTONE	54.0	276.0	
162.0	MATTOON		LIMESTONE	2.0	330.0	
160.0	MATTOON		SANDSTONE/SHALE	14.0	332.0	
146.0	MATTOON		BLACK SHALE	2.0	346.0	OFF GAMMA LOG
144.0	MATTOON		SANDSTONE/SHALE	32.0	348.0	
112.0	MATTOON		GRAY SHALE	12.0	380.0	
100.0	MATTOON		SANDSTONE	45.0	392.0	
55.0	MATTOON		LIMESTONE	1.0	437.0	
54.0	MATTOON		SHALY SANDSTONE	5.5	438.0	
48.5	MATTOON		COAL	1.0	443.5	
47.5	MATTOON		GRAY SHALE	6.0	444.5	
41.5	BOND	MILLERSVILLE	LIMESTONE	1.0	450.5	UNCERTAIN CORRELATION
40.5	BOND		SANDSTONE/SHALE	8.5	451.5	
32.0	BOND		GRAY SHALE	51.0	460.0	
-19.0	BOND		SANDSTONE	2.0	511.0	
-21.0	BOND		GRAY SHALE	30.0	513.0	
-51.0	BOND		COAL	1.0	543.0	
-52.0	BOND		UNDERCLAY	4.0	544.0	
-56.0	BOND		GRAY SHALE	32.0	548.0	
-88.0	BOND		LIMESTONE	1.0	580.0	
-89.0	BOND		GRAY SHALE	17.0	581.0	
-106.0	BOND		SHALE & SANDSTONE	6.0	598.0	
-112.0	BOND		GRAY SHALE	17.5	604.0	
-129.5	BOND	CARTHAGE	LIMESTONE	4.7	621.5	
-134.2	MODESTO		UNDERCLAY	2.8	626.2	NEW HAVEN COAL HORIZON
-137.0	MODESTO		SHALE & SANDSTONE	22.0	629.0	
-159.0	MODESTO		LIMESTONE	2.0	651.0	
-161.0	MODESTO		SHALE & SANDSTONE	27.0	653.0	
-188.0	MODESTO		GRAY SHALE	20.0	680.0	

-208.0	MODESTO	CHAPEL	BLACK SHALE & CLAY	4.0	700.0	
-212.0	MODESTO		GRAY SHALE	18.0	704.0	
-230.0	MODESTO		SHALE & SANDSTONE	14.0	722.0	
-244.0	MODESTO		GRAY SHALE	57.0	736.0	
-301.0	MODESTO		COAL	1.0	793.0	
-302.0	MODESTO		UNDERCLAY	4.0	794.0	
-306.0	MODESTO		GRAY SHALE	26.2	798.0	
-332.2	MODESTO	WEST FRANKLIN	LIMESTONE	4.3	824.2	
-336.5	MODESTO		GRAY SHALE	107.0	828.5	
-443.5	CARBONDALE	DANVILLE	COAL	2.5	935.5	
-446.0	CARBONDALE		GRAY SHALE	21.0	938.0	
-467.0	CARBONDALE		LIMESTONE	0.7	959.0	
-467.7	CARBONDALE		GRAY SHALE	5.3	959.7	
-473.0	CARBONDALE		COAL	1.0	965.0	
-474.0	CARBONDALE		SHALE	3.0	966.0	
-477.0	CARBONDALE	CONANT	LIMESTONE	2.0	969.0	
-479.0	CARBONDALE		COAL WITH SHALE	1.5	971.0	
-480.5	CARBONDALE	JAMESTOWN	COAL	2.8	972.5	CORE #1 9725-985.5
-483.3	CARBONDALE		BLACK SHALE	0.4	975.3	
-483.7	CARBONDALE		UNDERCLAY	0.4	975.7	
-484.1	CARBONDALE	BRERETON	LIMESTONE	3.3	976.1	
-487.4	CARBONDALE	ANNA	BLACK SHALE	0.1	979.4	
-487.5	CARBONDALE	HERRIN	COAL	4.0	979.5	
-491.5	CARBONDALE		SANDSTONE	1.1	983.5	
-492.6	CARBONDALE		CORE LOSS	0.9	984.6	
-493.5	CARBONDALE		UNDERCLAY	1.5	985.5	
-495.0	CARBONDALE		GRAY SHALE	2.0	987.0	
-497.0	CARBONDALE		CALCAREOUS SHALE	11.0	989.0	
-508.0	CARBONDALE		GRAY SHALE	17.5	1000.0	
-525.5	CARBONDALE	BRIAR HILL	COAL	2.5	1017.5	
-528.0	CARBONDALE		GRAY SHALE	6.0	1020.0	
-534.0	CARBONDALE	ST. DAVID	LIMESTONE	4.0	1026.0	
-538.0	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	1030.0	
-538.7	CARBONDALE	SPRINGFIELD	COAL	4.3	1030.7	
-543.0	CARBONDALE		UNDERCLAY	2.5	1035.0	
-545.5	CARBONDALE		LIMESTONE	2.0	1037.5	
-547.5	CARBONDALE		GRAY SHALE	70.3	1039.5	
-617.8	CARBONDALE	HANOVER	LIMESTONE	0.6	1109.8	
-618.4	CARBONDALE	EXCELLO	BLACK SHALE & CLAY	2.6	1110.4	
-621.0	CARBONDALE		UNDERCLAY	2.0	1113.0	
-623.0	CARBONDALE		GRAY SHALE	23.5	1115.0	
-646.5	CARBONDALE		LIMESTONE	1.5	1138.5	
-648.0	CARBONDALE		GRAY SHALE	47.5	1140.0	
-695.5	CARBONDALE	SURVANT	COAL WITH SHALE	0.8	1187.5	
-696.3	CARBONDALE		GRAY SHALE	63.7	1188.3	
-760.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.0	1252.0	
-761.0	CARBONDALE	COLCHESTER	COAL	2.0	1253.0	
-763.0	SPOON		LIMESTONE	1.5	1255.0	

-764.5	SPOON		GRAY SHALE	5.3	1256.5	
-769.8	SPOON		SANDSTONE	0.2	1261.8	
-770.0	SPOON		SANDSTONE	0.9	1262.0	CORE #2 1262-1275
-770.9	SPOON		SILTSTONE	0.8	1262.9	STS?
-771.7	SPOON		GRAY SHALE	2.6	1263.7	
-774.3	SPOON	SEELYVILLE	COAL	2.7	1266.3	
-777.0	SPOON	SEELYVILLE	BLACK SHALE	0.4	1269.0	
-777.4	SPOON	SEELYVILLE	UNDERCLAY	0.5	1269.4	
-777.9	SPOON	SEELYVILLE	BLACK SHALE	0.4	1269.9	
-778.3	SPOON	SEELYVILLE	COAL	1.3	1270.3	
-779.6	SPOON		BLACK SHALE	0.1	1271.6	
-779.7	SPOON		CORE LOSS	3.3	1271.7	PROBABLY UCLY
-783.0	SPOON		GRAY SHALE	4.5	1275.0	
-787.5	SPOON		BLACK SHALE & CLAY	1.0	1279.5	
-788.5	SPOON		GRAY SHALE	14.5	1280.5	

MAPID: 07900287000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 6N 10E **SECTION:** 25 **QUARTERS/FOOTAGES:** SE NW NE
QUADRANGLE: STE. MARIE **LONGITUDE:** -88.043431 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 38.93461 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 510.0 **LOGGED (FT.):** 1264.0 **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
-131.0	BOND	CARTHAGE	LIMESTONE	5.0	641.0			
-319.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	829.0			
-432.0	CARBONDALE	DANVILLE	COAL	-	942.0			
-487.0	CARBONDALE	HERRIN	COAL	-	997.0			
-539.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1049.0			
-618.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1128.0			
-754.0	CARBONDALE	COLCHESTER	COAL	-	1264.0			

MAPID: 07900397000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 25 QUARTERS/FOOTAGES: SE NW SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.043519 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.927375 DATE COLLECTED:
SURFACE ELEVATION (FT.): 492.0 LOGGED (FT.): 1280.0 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	BOND	CARTHAGE	LIMESTONE	5.0	605.0
-300.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	792.0
-442.0	CARBONDALE	DANVILLE	COAL	-	934.0
-498.0	CARBONDALE	HERRIN	COAL	-	990.0
-554.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1046.0
-633.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1125.0
-770.0	CARBONDALE	COLCHESTER	COAL	-	1262.0
-788.0	SPOON	SEELYVILLE	COAL	-	1280.0

MAPID: 07900271000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 27 QUARTERS/FOOTAGES: NE SE SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.076369 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.925145 DATE COLLECTED:
SURFACE ELEVATION (FT.): 510.0 LOGGED (FT.): 1155.0 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	BOND	CARTHAGE	LIMESTONE	6.0	659.0
-455.0	CARBONDALE	DANVILLE	COAL	-	965.0
-523.0	CARBONDALE	HERRIN	COAL	-	1033.0
-575.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1085.0
-645.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1155.0

MAPID: 07900810000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 27 QUARTERS/FOOTAGES: NE SW NW
QUADRANGLE: STE. MARIE LONGITUDE: -88.090322 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.931996 DATE COLLECTED:
SURFACE ELEVATION (FT.): 512.0 LOGGED (FT.): 1286.0 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
-132.0	BOND	CARTHAGE	LIMESTONE	4.0	644.0
-430.0	CARBONDALE	DANVILLE	COAL	-	942.0
-502.0	CARBONDALE	HERRIN	COAL	-	1014.0
-551.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1063.0
-622.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1134.0
-744.0	CARBONDALE	COLCHESTER	COAL	-	1256.0
-770.0	SPOON	SEELYVILLE	COAL	4.0	1282.0

MAPID: 07900811000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 27 QUARTERS/FOOTAGES: NW SW SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.08334 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.924967 DATE COLLECTED:
SURFACE ELEVATION (FT.): 505.0 LOGGED (FT.): 1281.0 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
-140.0	BOND	CARTHAGE	LIMESTONE	5.0	645.0
-317.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	822.0
-444.0	CARBONDALE	DANVILLE	COAL	-	949.0
-510.0	CARBONDALE	HERRIN	COAL	-	1015.0
-556.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1061.0
-630.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1135.0
-758.0	CARBONDALE	COLCHESTER	COAL	-	1263.0
-773.0	SPOON	SEELYVILLE	COAL	3.0	1278.0

MAPID: 07900689000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 28 QUARTERS/FOOTAGES: 330' S line, 660' W line of NW SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.100822 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.926372 DATE COLLECTED:
SURFACE ELEVATION (FT.): 550.0 LOGGED (FT.): 1297.0 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	BOND	CARTHAGE	LIMESTONE	6.0	661.0
-301.0	MODESTO	WEST FRANKLIN	LIMESTONE	29.0	851.0
-409.0	CARBONDALE	DANVILLE	COAL	-	959.0
-478.0	CARBONDALE	HERRIN	COAL	-	1028.0
-521.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1071.0
-597.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1147.0
-728.0	CARBONDALE	COLCHESTER	COAL	-	1278.0
-744.0	SPOON	SEELYVILLE	COAL	3.0	1294.0

MAPID: 07900816000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 28 QUARTERS/FOOTAGES: NW NW NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.101907 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.935342 DATE COLLECTED:
SURFACE ELEVATION (FT.): 512.0 LOGGED (FT.): 1286.0 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	BOND	CARTHAGE	LIMESTONE	4.0	653.0
-447.0	CARBONDALE	DANVILLE	COAL	-	959.0
-506.0	CARBONDALE	HERRIN	COAL	-	1018.0
-555.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1067.0
-628.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1140.0
-751.0	CARBONDALE	COLCHESTER	COAL	-	1263.0
-774.0	SPOON	SEELYVILLE	COAL	-	1286.0

MAPID: 07900670000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 29 QUARTERS/FOOTAGES: SE NW NW
QUADRANGLE: NEWTON LONGITUDE: -88.127733 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.932861 DATE COLLECTED:
SURFACE ELEVATION (FT.): 523.0 LOGGED (FT.): 1288.0 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
-148.0	BOND	CARTHAGE	LIMESTONE	5.0	671.0
-446.0	CARBONDALE	DANVILLE	COAL	-	969.0
-508.0	CARBONDALE	HERRIN	COAL	-	1031.0
-549.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1072.0
-617.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1140.0
-743.0	CARBONDALE	COLCHESTER	COAL	-	1266.0
-760.0	SPOON	SEELYVILLE	COAL	5.0	1283.0

MAPID: 07901720000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 29 QUARTERS/FOOTAGES: NE SW SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.118485 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.924184 DATE COLLECTED:
SURFACE ELEVATION (FT.): 497.0 LOGGED (FT.): 1277.0 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
-145.0	BOND	CARTHAGE	LIMESTONE	5.0	642.0
-355.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	852.0
-449.0	CARBONDALE	DANVILLE	COAL	-	946.0
-516.0	CARBONDALE	HERRIN	COAL	-	1013.0
-558.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1055.0
-630.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1127.0
-763.0	CARBONDALE	COLCHESTER	COAL	-	1260.0
-775.0	SPOON	SEELYVILLE	COAL	5.0	1272.0

MAPID: 07901721000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 29 QUARTERS/FOOTAGES: SW SW NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.120725 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.929484 DATE COLLECTED:
SURFACE ELEVATION (FT.): 510.0 LOGGED (FT.): 1289.0 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	BOND	CARTHAGE	LIMESTONE	5.0	654.0
-347.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	857.0
-451.0	CARBONDALE	DANVILLE	COAL	2.0	961.0
-518.0	CARBONDALE	HERRIN	COAL	4.0	1028.0
-558.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1068.0
-630.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1140.0
-761.0	CARBONDALE	COLCHESTER	COAL	-	1271.0
-776.0	SPOON	SEELYVILLE	COAL	3.0	1286.0

MAPID: 07900478000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 30 QUARTERS/FOOTAGES: SE NW NE
QUADRANGLE: NEWTON LONGITUDE: -88.13744 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.932491 DATE COLLECTED:
SURFACE ELEVATION (FT.): 525.0 LOGGED (FT.): 1313.0 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	BOND	CARTHAGE	LIMESTONE	5.0	684.0
-465.0	CARBONDALE	DANVILLE	COAL	-	990.0
-531.0	CARBONDALE	HERRIN	COAL	-	1056.0
-570.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1095.0
-637.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1162.0
-773.0	CARBONDALE	COLCHESTER	COAL	-	1298.0
-782.0	SPOON	SEELYVILLE	COAL	6.0	1307.0

MAPID: 07901078000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 30 QUARTERS/FOOTAGES: NE SE SE
QUADRANGLE: NEWTON LONGITUDE: -88.132743 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.923822 DATE COLLECTED:
SURFACE ELEVATION (FT.): 521.0 LOGGED (FT.): 1310.0 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	BOND	CARTHAGE	LIMESTONE	4.0	671.0
-462.0	CARBONDALE	DANVILLE	COAL	-	983.0
-519.0	CARBONDALE	HERRIN	COAL	-	1040.0
-565.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1086.0
-634.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1155.0
-778.0	CARBONDALE	COLCHESTER	COAL	-	1299.0
-789.0	SPOON	SEELYVILLE	COAL	-	1310.0

MAPID: 07900643000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 31 QUARTERS/FOOTAGES: SE SE NE
QUADRANGLE: NEWTON LONGITUDE: -88.133136 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.914812 DATE COLLECTED:
SURFACE ELEVATION (FT.): 523.0 LOGGED (FT.): 1313.0 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
-148.0	BOND	CARTHAGE	LIMESTONE	5.0	671.0
-374.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	897.0
-448.0	CARBONDALE	DANVILLE	COAL	-	971.0
-519.0	CARBONDALE	HERRIN	COAL	-	1042.0
-552.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1075.0
-621.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1144.0
-761.0	CARBONDALE	COLCHESTER	COAL	-	1284.0
-785.0	SPOON	SEELYVILLE	COAL	5.0	1308.0

MAPID: 07901727000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 31 QUARTERS/FOOTAGES: NW NW SW
QUADRANGLE: NEWTON LONGITUDE: -88.149706 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.912822 DATE COLLECTED:
SURFACE ELEVATION (FT.): 551.0 LOGGED (FT.): 1417.0 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	
-194.0	BOND	CARTHAGE	LIMESTONE	6.0	745.0	
-519.0	CARBONDALE	DANVILLE	COAL	-	1070.0	
-586.0	CARBONDALE	HERRIN	COAL	-	1137.0	
-622.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1173.0	
-693.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1244.0	
-841.0	CARBONDALE	COLCHESTER	COAL	-	1392.0	
-860.0	SPOON	SEELYVILLE	COAL	6.0	1411.0	

MAPID: 07900745000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 32 QUARTERS/FOOTAGES: NE NW SW
QUADRANGLE: NEWTON LONGITUDE: -88.128451 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.913075 DATE COLLECTED:
SURFACE ELEVATION (FT.): 510.0 LOGGED (FT.): 1294.0 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	
-366.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	876.0	
-445.0	CARBONDALE	DANVILLE	COAL	-	955.0	
-514.0	CARBONDALE	HERRIN	COAL	-	1024.0	
-549.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1059.0	
-613.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1123.0	
-757.0	CARBONDALE	COLCHESTER	COAL	-	1267.0	
-779.0	SPOON	SEELYVILLE	COAL	5.0	1289.0	

MAPID: 07901037000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 32 QUARTERS/FOOTAGES: NE SW NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.118714 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.916931 DATE COLLECTED:
SURFACE ELEVATION (FT.): 502.0 LOGGED (FT.): 1286.0 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
-135.0	BOND	CARTHAGE	LIMESTONE	5.0	637.0
-447.0	CARBONDALE	DANVILLE	COAL	-	949.0
-517.0	CARBONDALE	HERRIN	COAL	-	1019.0
-554.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1056.0
-620.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1122.0
-765.0	CARBONDALE	COLCHESTER	COAL	-	1267.0
-781.0	SPOON	SEELYVILLE	COAL	3.0	1283.0

MAPID: 07900673000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 33 QUARTERS/FOOTAGES: SE SE SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.104645 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.908129 DATE COLLECTED:
SURFACE ELEVATION (FT.): 509.0 LOGGED (FT.): 1303.0 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
-138.0	BOND	CARTHAGE	LIMESTONE	5.0	647.0
-449.0	CARBONDALE	DANVILLE	COAL	-	958.0
-518.0	CARBONDALE	HERRIN	COAL	3.0	1027.0
-554.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1063.0
-626.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1135.0
-771.0	CARBONDALE	COLCHESTER	COAL	-	1280.0
-792.0	SPOON	SEELYVILLE	COAL	2.0	1301.0

MAPID: 07900751000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 33 QUARTERS/FOOTAGES: SE SE NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.095033 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.915628 DATE COLLECTED:
SURFACE ELEVATION (FT.): 505.0 LOGGED (FT.): 1304.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-140.0	BOND	CARTHAGE	LIMESTONE	5.0	645.0
-312.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	817.0
-460.0	CARBONDALE	DANVILLE	COAL	-	965.0
-525.0	CARBONDALE	HERRIN	COAL	3.0	1030.0
-564.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1069.0
-640.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1145.0
-772.0	CARBONDALE	COLCHESTER	COAL	-	1277.0
-797.0	SPOON	SEELYVILLE	COAL	2.0	1302.0

MAPID: 07900789000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 33 QUARTERS/FOOTAGES: SW SW NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.102136 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.915471 DATE COLLECTED:
SURFACE ELEVATION (FT.): 508.0 LOGGED (FT.): 1297.0 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
-132.0	BOND	CARTHAGE	LIMESTONE	5.0	640.0
-304.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	812.0
-449.0	CARBONDALE	DANVILLE	COAL	-	957.0
-516.0	CARBONDALE	HERRIN	COAL	-	1024.0
-555.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1063.0
-628.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1136.0
-768.0	CARBONDALE	COLCHESTER	COAL	-	1276.0
-786.0	SPOON	SEELYVILLE	COAL	3.0	1294.0

MAPID: 07901741000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 33 QUARTERS/FOOTAGES: 1653' N line, 660' W line
QUADRANGLE: STE. MARIE LONGITUDE: -88.110406 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.917116 DATE COLLECTED:
SURFACE ELEVATION (FT.): 495.0 LOGGED (FT.): 1280.0 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	BOND	CARTHAGE	LIMESTONE	5.0	628.0
-305.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	800.0
-445.0	CARBONDALE	DANVILLE	COAL	-	940.0
-515.0	CARBONDALE	HERRIN	COAL	-	1010.0
-555.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1050.0
-625.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1120.0
-763.0	CARBONDALE	COLCHESTER	COAL	-	1258.0
-785.0	SPOON	SEELYVILLE	COAL	-	1280.0

MAPID: 07900380000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 34 QUARTERS/FOOTAGES: 330' N line, 110' E line of NW SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.08034 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.914149 DATE COLLECTED:
SURFACE ELEVATION (FT.): 489.0 LOGGED (FT.): 1282.0 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	BOND	CARTHAGE	LIMESTONE	6.0	632.0
-313.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	802.0
-462.0	CARBONDALE	DANVILLE	COAL	2.0	951.0
-527.0	CARBONDALE	HERRIN	COAL	-	1016.0
-570.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1059.0
-639.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1128.0
-773.0	CARBONDALE	COLCHESTER	COAL	-	1262.0
-791.0	SPOON	SEELYVILLE	COAL	2.0	1280.0

MAPID: 07900692000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 34 QUARTERS/FOOTAGES: NW NW NW
QUADRANGLE: STE. MARIE LONGITUDE: -88.092634 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.921115 DATE COLLECTED:
SURFACE ELEVATION (FT.): 509.0 LOGGED (FT.): 1292.0 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	
-141.0	BOND	CARTHAGE	LIMESTONE	6.0	650.0	
-446.0	CARBONDALE	DANVILLE	COAL	-	955.0	
-514.0	CARBONDALE	HERRIN	COAL	-	1023.0	
-555.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1064.0	
-630.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1139.0	
-759.0	CARBONDALE	COLCHESTER	COAL	-	1268.0	
-780.0	SPOON	SEELYVILLE	COAL	3.0	1289.0	

MAPID: 07900775000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 35 QUARTERS/FOOTAGES: NE NE SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.067128 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.914412 DATE COLLECTED:
SURFACE ELEVATION (FT.): 491.0 LOGGED (FT.): 1267.0 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	
-318.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	809.0	
-468.0	CARBONDALE	DANVILLE	COAL	-	959.0	
-533.0	CARBONDALE	HERRIN	COAL	-	1024.0	
-575.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1066.0	
-645.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1136.0	
-776.0	CARBONDALE	COLCHESTER	COAL	-	1267.0	

MAPID: 07900805000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 36 QUARTERS/FOOTAGES: SW SE SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.050731 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.909308 DATE COLLECTED:
SURFACE ELEVATION (FT.): 474.0 LOGGED (FT.): 1246.0 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	BOND	CARTHAGE	LIMESTONE	5.0	583.0
-281.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	755.0
-426.0	CARBONDALE	DANVILLE	COAL	-	900.0
-493.0	CARBONDALE	HERRIN	COAL	-	967.0
-540.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1014.0
-613.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1087.0
-750.0	CARBONDALE	COLCHESTER	COAL	-	1224.0
-769.0	SPOON	SEELYVILLE	COAL	3.0	1243.0

MAPID: 07900823000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 10E SECTION: 36 QUARTERS/FOOTAGES: SE SW NW
QUADRANGLE: STE. MARIE LONGITUDE: -88.053059 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.916466 DATE COLLECTED:
SURFACE ELEVATION (FT.): 483.0 LOGGED (FT.): 1277.0 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	BOND	CARTHAGE	LIMESTONE	4.0	602.0
-295.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	778.0
-431.0	CARBONDALE	DANVILLE	COAL	-	914.0
-506.0	CARBONDALE	HERRIN	COAL	-	989.0
-560.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1043.0
-637.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1120.0
-779.0	CARBONDALE	COLCHESTER	COAL	-	1262.0
-792.0	SPOON	SEELYVILLE	COAL	2.0	1275.0

MAPID: 07900480000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 11E SECTION: 6 QUARTERS/FOOTAGES: NE SE NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.023002 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.991285 DATE COLLECTED:
SURFACE ELEVATION (FT.): 501.0 LOGGED (FT.): 1259.0 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	BOND	CARTHAGE	LIMESTONE	6.0	609.0
-276.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	777.0
-415.0	CARBONDALE	DANVILLE	COAL	2.0	916.0
-464.0	CARBONDALE	HERRIN	COAL	-	965.0
-517.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1018.0
-606.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1107.0
-727.0	CARBONDALE	COLCHESTER	COAL	-	1228.0
-752.0	SPOON	SEELYVILLE	COAL	6.0	1253.0

MAPID: 07900481000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 11E SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 660' W line of NW SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.028944 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.985946 DATE COLLECTED:
SURFACE ELEVATION (FT.): 503.0 LOGGED (FT.): 1230.0 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	BOND	CARTHAGE	LIMESTONE	7.0	605.0
-270.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	773.0
-407.0	CARBONDALE	DANVILLE	COAL	-	910.0
-457.0	CARBONDALE	HERRIN	COAL	5.0	960.0
-507.0	CARBONDALE	SPRINGFIELD	COAL	-	1010.0
-592.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1095.0
-703.0	CARBONDALE	COLCHESTER	COAL	-	1206.0
-724.0	SPOON	SEELYVILLE	COAL	3.0	1227.0

MAPID: 07900243000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 11E SECTION: 7 QUARTERS/FOOTAGES: 330' S line, 660' E line of SE SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.024381 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.967375 DATE COLLECTED:
SURFACE ELEVATION (FT.): 490.0 LOGGED (FT.): 1230.0 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
-112.0	BOND	CARTHAGE	LIMESTONE	6.0	602.0
-292.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	782.0
-425.0	CARBONDALE	DANVILLE	COAL	-	915.0
-480.0	CARBONDALE	HERRIN	COAL	-	970.0
-530.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1020.0
-605.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1095.0
-740.0	CARBONDALE	COLCHESTER	COAL	-	1230.0

MAPID: 07900877000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 11E SECTION: 7 QUARTERS/FOOTAGES: SW NW SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.030211 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.971066 DATE COLLECTED:
SURFACE ELEVATION (FT.): 501.0 LOGGED (FT.): 1260.0 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	BOND	CARTHAGE	LIMESTONE	4.0	620.0
-296.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	797.0
-431.0	CARBONDALE	DANVILLE	COAL	-	932.0
-489.0	CARBONDALE	HERRIN	COAL	-	990.0
-537.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1038.0
-616.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1117.0
-751.0	CARBONDALE	COLCHESTER	COAL	-	1252.0
-759.0	SPOON	SEELYVILLE	COAL	-	1260.0

MAPID: 07900489000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 11E SECTION: 18 QUARTERS/FOOTAGES: SE NW NE
QUADRANGLE: STE. MARIE LONGITUDE: -88.02793 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.963707 DATE COLLECTED:
SURFACE ELEVATION (FT.): 470.0 LOGGED (FT.): 1249.0 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	BOND	CARTHAGE	LIMESTONE	6.0	589.0
-323.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	793.0
-420.0	CARBONDALE	DANVILLE	COAL	-	890.0
-480.0	CARBONDALE	HERRIN	COAL	2.5	950.0
-610.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1080.0
-743.0	CARBONDALE	COLCHESTER	COAL	-	1213.0
-774.0	SPOON	SEELYVILLE	COAL	5.0	1244.0

MAPID: 07900339000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 14W SECTION: 4 QUARTERS/FOOTAGES: NE NW SE
QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.970653 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.988596 DATE COLLECTED:
SURFACE ELEVATION (FT.): 480.0 LOGGED (FT.): 1140.0 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
-52.0	BOND	CARTHAGE	LIMESTONE	5.0	532.0
-356.0	CARBONDALE	DANVILLE	COAL	3.0	836.0
-409.0	CARBONDALE	HERRIN	COAL	4.0	889.0
-461.0	CARBONDALE	SPRINGFIELD	COAL	3.0	941.0
-533.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1013.0
-660.0	CARBONDALE	COLCHESTER	COAL	-	1140.0

MAPID: 07901113000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 6N 14W

SECTION: 6

QUARTERS/FOOTAGES: SW NW SW

QUADRANGLE: STE. MARIE

LONGITUDE: -88.020729

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.985944

DATE COLLECTED:

SURFACE ELEVATION (FT.): 500.0

LOGGED (FT.): 1253.0

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	BOND	CARTHAGE	LIMESTONE	5.0	612.0
-293.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	793.0
-422.0	CARBONDALE	DANVILLE	COAL	-	922.0
-475.0	CARBONDALE	HERRIN	COAL	4.0	975.0
-524.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1024.0
-610.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1110.0
-734.0	CARBONDALE	COLCHESTER	COAL	-	1234.0
-753.0	SPOON	SEELYVILLE	COAL	-	1253.0

MAPID: 07902437000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 6N 14W

SECTION: 7

QUARTERS/FOOTAGES: NE SW NE

QUADRANGLE: STE. MARIE

LONGITUDE: -88.008572

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 38.976945

DATE COLLECTED:

SURFACE ELEVATION (FT.): 484.0

LOGGED (FT.): 1245.0

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
-103.0	BOND	CARTHAGE	LIMESTONE	5.0	587.0
-280.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	764.0
-409.0	CARBONDALE	DANVILLE	COAL	-	893.0
-463.0	CARBONDALE	HERRIN	COAL	4.0	947.0
-596.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1080.0
-741.0	CARBONDALE	COLCHESTER	COAL	-	1225.0
-761.0	SPOON	SEELYVILLE	COAL	-	1245.0

MAPID: 07902423000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 14W SECTION: 9 QUARTERS/FOOTAGES: SE SE NW
QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.975201 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.975839 DATE COLLECTED:
SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 1214.0 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	BOND	CARTHAGE	LIMESTONE	3.0	570.0
-391.0	CARBONDALE	DANVILLE	COAL	-	870.0
-446.0	CARBONDALE	HERRIN	COAL	3.0	925.0
-500.0	CARBONDALE	SPRINGFIELD	COAL	-	979.0
-574.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1053.0
-710.0	CARBONDALE	COLCHESTER	COAL	-	1189.0
-735.0	SPOON	SEELYVILLE	COAL	-	1214.0

MAPID: 07900396000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 14W SECTION: 16 QUARTERS/FOOTAGES: SE SE SE
QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.965573 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.954093 DATE COLLECTED:
SURFACE ELEVATION (FT.): 472.0 LOGGED (FT.): 1216.0 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
-278.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	750.0
-407.0	CARBONDALE	DANVILLE	COAL	-	879.0
-459.0	CARBONDALE	HERRIN	COAL	4.0	931.0
-516.0	CARBONDALE	SPRINGFIELD	COAL	2.5	988.0
-593.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1065.0
-744.0	CARBONDALE	COLCHESTER	COAL	-	1216.0

MAPID: 07900326000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 14W SECTION: 19 QUARTERS/FOOTAGES: SW SW SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.021106 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.938525 DATE COLLECTED:
SURFACE ELEVATION (FT.): 463.0 LOGGED (FT.): 1261.0 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
-138.0	BOND	CARTHAGE	LIMESTONE	5.0	601.0
-333.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	796.0
-437.0	CARBONDALE	DANVILLE	COAL	-	900.0
-492.0	CARBONDALE	HERRIN	COAL	5.0	955.0
-547.0	CARBONDALE	SPRINGFIELD	COAL	-	1010.0
-629.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1092.0
-770.0	CARBONDALE	COLCHESTER	COAL	-	1233.0
-795.0	SPOON	SEELYVILLE	COAL	3.0	1258.0

MAPID: 07900359000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 14W SECTION: 27 QUARTERS/FOOTAGES: SW NW SW
QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.962759 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.928599 DATE COLLECTED:
SURFACE ELEVATION (FT.): 483.0 LOGGED (FT.): 1244.5 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
-267.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	750.0
-408.0	CARBONDALE	DANVILLE	COAL	-	891.0
-464.0	CARBONDALE	HERRIN	COAL	5.0	947.0
-526.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1009.0
-607.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1090.0
-740.0	CARBONDALE	COLCHESTER	COAL	-	1223.0
-758.0	SPOON	SEELYVILLE	COAL	3.5	1241.0

MAPID: 07901149000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 14W SECTION: 27 QUARTERS/FOOTAGES: NW NW SE
QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.953362 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.929946 DATE COLLECTED:
SURFACE ELEVATION (FT.): 485.0 LOGGED (FT.): 1211.0 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
-256.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	741.0
-380.0	CARBONDALE	DANVILLE	COAL	-	865.0
-435.0	CARBONDALE	HERRIN	COAL	5.0	920.0
-493.0	CARBONDALE	SPRINGFIELD	COAL	4.0	978.0
-570.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1055.0
-691.0	CARBONDALE	COLCHESTER	COAL	-	1176.0
-722.0	SPOON	SEELYVILLE	COAL	4.0	1207.0

MAPID: 07900491000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 14W SECTION: 28 QUARTERS/FOOTAGES: 1010' S line, 330' W line of SW NE
QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.972301 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 38.934103 DATE COLLECTED:
SURFACE ELEVATION (FT.): 489.0 LOGGED (FT.): 1241.5 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
-103.0	BOND	CARTHAGE	LIMESTONE	5.0	592.0
-311.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	800.0
-402.0	CARBONDALE	DANVILLE	COAL	-	891.0
-459.0	CARBONDALE	HERRIN	COAL	-	948.0
-515.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1004.0
-581.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1070.0
-733.0	CARBONDALE	COLCHESTER	COAL	-	1222.0
-749.0	SPOON	SEELYVILLE	COAL	3.5	1238.0

MAPID: 07900803000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 14W SECTION: 28 QUARTERS/FOOTAGES: SW SE SE
QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.967417 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.925022 DATE COLLECTED:
SURFACE ELEVATION (FT.): 491.0 LOGGED (FT.): 1231.0 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	
-262.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	753.0	
-399.0	CARBONDALE	DANVILLE	COAL	2.5	890.0	
-456.0	CARBONDALE	HERRIN	COAL	-	947.0	
-517.0	CARBONDALE	SPRINGFIELD	COAL	-	1008.0	
-588.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1079.0	
-719.0	CARBONDALE	COLCHESTER	COAL	-	1210.0	
-737.0	SPOON	SEELYVILLE	COAL	3.0	1228.0	

MAPID: 07900826000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 14W SECTION: 29 QUARTERS/FOOTAGES: SE SE SW
QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.993631 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.924478 DATE COLLECTED:
SURFACE ELEVATION (FT.): 463.0 LOGGED (FT.): 1215.0 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	
-283.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	746.0	
-412.0	CARBONDALE	DANVILLE	COAL	-	875.0	
-470.0	CARBONDALE	HERRIN	COAL	4.0	933.0	
-524.0	CARBONDALE	SPRINGFIELD	COAL	3.0	987.0	
-605.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1068.0	
-752.0	CARBONDALE	COLCHESTER	COAL	-	1215.0	

MAPID: 07900554000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 14W SECTION: 31 QUARTERS/FOOTAGES: SE NE SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.003149 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.913134 DATE COLLECTED:
SURFACE ELEVATION (FT.): 463.0 LOGGED (FT.): 1242.0 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
-291.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	754.0
-429.0	CARBONDALE	DANVILLE	COAL	-	892.0
-489.0	CARBONDALE	HERRIN	COAL	5.0	952.0
-543.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1006.0
-622.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1085.0
-767.0	CARBONDALE	COLCHESTER	COAL	-	1230.0
-777.0	SPOON	SEELYVILLE	COAL	2.0	1240.0

MAPID: 07901066000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 14W SECTION: 31 QUARTERS/FOOTAGES: SW SW SW
QUADRANGLE: STE. MARIE LONGITUDE: -88.021272 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.909685 DATE COLLECTED:
SURFACE ELEVATION (FT.): 462.0 LOGGED (FT.): 1279.5 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
-132.0	BOND	CARTHAGE	LIMESTONE	5.0	594.0
-308.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	770.0
-449.0	CARBONDALE	DANVILLE	COAL	2.0	911.0
-513.0	CARBONDALE	HERRIN	COAL	5.0	975.0
-570.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1032.0
-648.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1110.0
-788.0	CARBONDALE	COLCHESTER	COAL	-	1250.0
-814.0	SPOON	SEELYVILLE	COAL	3.5	1276.0

MAPID: 07900358000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 14W SECTION: 32 QUARTERS/FOOTAGES: SE SW SE

QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.988861 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.909617 DATE COLLECTED:

SURFACE ELEVATION (FT.): 461.0 LOGGED (FT.): 1234.0 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	
-295.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	756.0	
-419.0	CARBONDALE	DANVILLE	COAL	2.0	880.0	
-477.0	CARBONDALE	HERRIN	COAL	4.0	938.0	
-532.0	CARBONDALE	SPRINGFIELD	COAL	3.0	993.0	
-616.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1077.0	
-753.0	CARBONDALE	COLCHESTER	COAL	-	1214.0	
-769.0	SPOON	SEELYVILLE	COAL	4.0	1230.0	

MAPID: 07900360000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 6N 14W SECTION: 33 QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.965071 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 38.923168 DATE COLLECTED:

SURFACE ELEVATION (FT.): 485.0 LOGGED (FT.): 1080.0 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	
-250.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	735.0	
-395.0	CARBONDALE	DANVILLE	COAL	-	880.0	
-455.0	CARBONDALE	HERRIN	COAL	3.0	940.0	
-595.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1080.0	

MAPID: 07900493000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 14W SECTION: 33 QUARTERS/FOOTAGES: NE NE SW
QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.974675 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.91544 DATE COLLECTED:
SURFACE ELEVATION (FT.): 481.0 LOGGED (FT.): 1221.0 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	
-262.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	743.0	
-399.0	CARBONDALE	DANVILLE	COAL	-	880.0	
-454.0	CARBONDALE	HERRIN	COAL	4.0	935.0	
-512.0	CARBONDALE	SPRINGFIELD	COAL	3.0	993.0	
-596.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1077.0	
-720.0	CARBONDALE	COLCHESTER	COAL	-	1201.0	
-737.0	SPOON	SEELYVILLE	COAL	3.0	1218.0	

MAPID: 07900702000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 6N 14W SECTION: 34 QUARTERS/FOOTAGES: NW NW NE
QUADRANGLE: OBLONG SOUTH LONGITUDE: -87.953322 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.922706 DATE COLLECTED:
SURFACE ELEVATION (FT.): 478.0 LOGGED (FT.): 1199.0 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	
-259.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	737.0	
-402.0	CARBONDALE	DANVILLE	COAL	-	880.0	
-455.0	CARBONDALE	HERRIN	COAL	4.0	933.0	
-515.0	CARBONDALE	SPRINGFIELD	COAL	4.0	993.0	
-597.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1075.0	
-721.0	CARBONDALE	COLCHESTER	COAL	-	1199.0	

MAPID: 07923345000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 3 QUARTERS/FOOTAGES: 1350' S line, 54' E line
 QUADRANGLE: WHEELER LONGITUDE: -88.298472 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.073569 DATE COLLECTED: 6 / 6 / 1980
 SURFACE ELEVATION (FT.): 592.0 LOGGED (FT.): 1545.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG-80-3-5C WELL TYPE: Coal Test
 COMMENT: GAM, DENS, RESIST, & DRILL LOG CORE DESC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
592.0			UNCONSOLIDATED	16.0	0.0	
576.0	MATTOON		GRAY SHALE	21.0	16.0	
555.0	MATTOON		BLACK SHALE	1.0	37.0	
554.0	MATTOON		GRAY SHALE	71.5	38.0	
482.5	MATTOON		LIMESTONE	0.3	109.5	
482.2	MATTOON		GRAY SHALE	37.2	109.8	
445.0	MATTOON	FALMOUTH	BLACK SHALE	3.0	147.0	OFF GAMMA LOG
442.0	MATTOON		GRAY SHALE	21.0	150.0	OFF GAMMA LOG
421.0	MATTOON		SANDSTONE/SHALE	8.0	171.0	OFF GAMMA LOG
413.0	MATTOON	WETWETHER	BLACK SHALE	2.0	179.0	OFF GAMMA LOG
411.0	MATTOON		GRAY SHALE	5.0	181.0	OFF GAMMA LOG
406.0	MATTOON	TROWBRIDGE	COAL	2.0	186.0	
404.0	MATTOON	BOGOTA	LIMESTONE	6.0	188.0	OFF GAMMA LOG
398.0	MATTOON		SANDSTONE/SHALE	2.0	194.0	OFF GAMMA LOG
396.0	MATTOON		GRAY SHALE	12.0	196.0	OFF GAMMA LOG
384.0	MATTOON	INGRAHAM	BLACK SHALE	7.0	208.0	OFF GAMMA LOG
377.0	MATTOON		GRAY SHALE	2.0	215.0	OFF GAMMA LOG
375.0	MATTOON		DARK SHALE	2.0	217.0	OFF GAMMA LOG
373.0	MATTOON		UNDERCLAY	3.0	219.0	
370.0	MATTOON		GRAY SHALE	6.0	222.0	
364.0	MATTOON		SANDSTONE	7.0	228.0	
357.0	MATTOON		SHALE	45.0	235.0	
312.0	MATTOON	SHUMWAY	LIMESTONE	1.3	280.0	
310.7	MATTOON		GRAY SHALE	6.7	281.3	
304.0	MATTOON	TEUTOPOLIS	BLACK SHALE	4.0	288.0	OFF GAMMA LOG
300.0	MATTOON		GRAY SHALE	27.0	292.0	
273.0	MATTOON		LIMESTONE	0.5	319.0	
272.5	MATTOON		GRAY SHALE	6.5	319.5	
266.0	MATTOON		LIMESTONE	2.0	326.0	
-925.1	SPOON	SEELYVILLE	COAL	4.1	1517.1	
-929.2	SPOON		UNDERCLAY	1.9	1521.2	
-931.0	SPOON		SHALE	22.0	1523.0	
264.0	MATTOON		GRAY SHALE	2.0	328.0	
262.0	MATTOON		SANDSTONE/SHALE	30.0	330.0	
232.0	MATTOON		SANDSTONE/LIMESTONE	4.0	360.0	
228.0	MATTOON		SANDSTONE/SHALE	2.0	364.0	
226.0	MATTOON		SHALE	11.0	366.0	
215.0	MATTOON		COAL	2.0	377.0	

213.0	MATTOON		GRAY SHALE	184.0	379.0	
29.0	MATTOON		BLACK SHALE	2.0	563.0	
27.0	MATTOON		GRAY SHALE	68.5	565.0	
-41.5	MATTOON		LIMESTONE	3.0	633.5	
-44.5	MATTOON		SANDSTONE	4.5	636.5	
-49.0	MATTOON		COAL	0.5	641.0	
-49.5	MATTOON		GRAY SHALE	33.0	641.5	
-82.5	MATTOON		COAL	1.5	674.5	
-84.0	MATTOON		GRAY SHALE	1.0	676.0	
-85.0	BOND	MILLERSVILLE	LIMESTONE	4.0	677.0	
-89.0	BOND		GRAY SHALE	90.0	681.0	
-179.0	BOND		LIMESTONE	1.0	771.0	
-180.0	BOND		SHALE	35.0	772.0	
-215.0	BOND		LIMESTONE	5.0	807.0	
-220.0	BOND		GRAY SHALE	31.2	812.0	
-251.2	BOND	CARTHAGE	LIMESTONE	3.3	843.2	
-254.5	MODESTO		GRAY SHALE	1.5	846.5	
-256.0	MODESTO		BLACK SHALE	1.0	848.0	
-257.0	MODESTO		GRAY SHALE	36.0	849.0	
-293.0	MODESTO		LIMESTONE	1.0	885.0	
-294.0	MODESTO		GRAY SHALE	24.5	886.0	
-318.5	MODESTO		CALCAREOUS SHALE	3.5	910.5	
-322.0	MODESTO		BLACK SHALE	2.0	914.0	
-324.0	MODESTO		GRAY SHALE	69.5	916.0	
-393.5	MODESTO		LIMESTONE	1.0	985.5	
-394.5	MODESTO		SHALE	59.5	986.5	
-454.0	MODESTO	WEST FRANKLIN	CALCAREOUS SHALE	3.0	1046.0	
-457.0	MODESTO	WEST FRANKLIN	GRAY SHALE	4.0	1049.0	
-461.0	MODESTO	WEST FRANKLIN	LIMESTONE	0.5	1053.0	
-461.5	MODESTO		GRAY SHALE	23.5	1053.5	
-485.0	MODESTO		LIMESTONE	2.0	1077.0	
-487.0	MODESTO		GRAY SHALE	108.0	1079.0	
-595.0	CARBONDALE	DANVILLE	COAL	3.0	1187.0	
-598.0	CARBONDALE		GRAY SHALE	7.0	1190.0	
-605.0	CARBONDALE		LIMESTONE	1.0	1197.0	
-606.0	CARBONDALE		GRAY SHALE	6.0	1198.0	
-612.0	CARBONDALE	BANKSTON FORK	LIMESTONE	1.5	1204.0	
-613.5	CARBONDALE		GRAY SHALE	4.5	1205.5	
-618.0	CARBONDALE	CONANT	LIMESTONE	3.0	1210.0	
-621.0	CARBONDALE		BLACK SHALE	0.5	1213.0	AND "SMUT"
-621.5	CARBONDALE	JAMESTOWN	COAL	2.2	1213.5	CORE #1 1213.5-1225
-623.7	CARBONDALE		DARK SHALE & BLACK SHALE	2.1	1215.7	
-625.8	CARBONDALE	BRERETON	LIMESTONE	4.1	1217.8	
-629.9	CARBONDALE	ANNA	BLACK SHALE	1.5	1221.9	
-631.3	CARBONDALE	ANNA	LIMESTONE	0.3	1223.3	
-631.6	CARBONDALE	ANNA	BLACK SHALE	0.8	1223.6	
-632.4	CARBONDALE	ANNA	LIMESTONE	0.5	1224.4	

-632.9	CARBONDALE	ANNA	BLACK SHALE	0.2	1224.9	
-633.0	CARBONDALE	HERRIN	COAL	3.9	1225.0	CORE #2 1225-1232
-636.9	CARBONDALE	HERRIN	PYRITE	0.1	1228.9	
-637.0	CARBONDALE	HERRIN	COAL	1.4	1229.0	
-638.3	CARBONDALE		UNDERCLAY	1.7	1230.3	
-640.0	CARBONDALE		UNDERCLAY	3.0	1232.0	
-643.0	CARBONDALE		LIMESTONE W/ SHALE	2.0	1235.0	
-645.0	CARBONDALE		GRAY SHALE	13.0	1237.0	
-658.0	CARBONDALE		DARK SHALE	6.5	1250.0	
-664.5	CARBONDALE	BRIAR HILL	COAL	2.0	1256.5	
-666.5	CARBONDALE		GRAY SHALE	4.5	1258.5	
-671.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1263.0	
-675.5	CARBONDALE		UNDERCLAY	2.5	1267.5	
-678.0	CARBONDALE		LIMESTONE W/ SHALE	3.0	1270.0	
-681.0	CARBONDALE		SHALE & SANDSTONE	4.0	1273.0	
-685.0	CARBONDALE		GRAY SHALE	75.0	1277.0	
-760.0	CARBONDALE	HOUCHIN CREEK	BLACK SHALE & CLAY	4.0	1352.0	INCLUDES EXCELLO SHALE
-764.0	CARBONDALE		GRAY SHALE	69.0	1356.0	
-833.0	CARBONDALE	SURVANT - UPPER	COAL	1.0	1425.0	
-834.0	CARBONDALE		GRAY SHALE	30.0	1426.0	
-864.0	CARBONDALE	SURVANT - LOWER	COAL	0.5	1456.0	
-864.5	CARBONDALE		SHALE	30.5	1456.5	
-895.0	CARBONDALE	COLCHESTER	COAL	2.5	1487.0	
-897.5	SPOON		DARK SHALE	1.5	1489.5	
-899.0	SPOON		COAL	1.0	1491.0	
-900.0	SPOON		BLACK SHALE	1.2	1492.0	
-901.2	SPOON		LIMESTONE	0.8	1493.2	
-902.0	SPOON		GRAY SHALE	14.0	1494.0	
-916.0	SPOON		GRAY SHALE	6.0	1508.0	CORE #3 1508-1523'
-922.0	SPOON	SEELYVILLE	COAL	2.8	1514.0	
-924.8	SPOON	SEELYVILLE	BONE COAL	0.3	1516.8	

MAPID: 07900494000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 4 QUARTERS/FOOTAGES: NE NE SW

QUADRANGLE: WHEELER LONGITUDE: -88.327174 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.078541 DATE COLLECTED:

SURFACE ELEVATION (FT.): 587.0 LOGGED (FT.): 1458.0 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
-221.0	BOND	CARTHAGE	LIMESTONE	5.0	808.0
-437.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	1024.0
-553.0	CARBONDALE	DANVILLE	COAL	2.0	1140.0
-589.0	CARBONDALE	HERRIN	COAL	4.5	1176.0
-621.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1208.0
-703.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1290.0
-843.0	CARBONDALE	COLCHESTER	COAL	-	1430.0
-865.0	SPOON	SEELYVILLE	COAL	6.0	1452.0

MAPID: 07922803000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 7 QUARTERS/FOOTAGES: 147' N line, 47' W line

QUADRANGLE: WHEELER LONGITUDE: -88.360708 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.072966 DATE COLLECTED: 4 / 20 / 1979

SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 1194.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. IG-79-7-5 WELL TYPE: Coal Test

COMMENT: GAMMA, DENSITY, RESIST. AND DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0			UNCONSOLIDATED	21.0	0.0	
579.0	MATTOON		GRAY SHALE	73.0	21.0	
506.0	MATTOON	FALMOUTH	BLACK SHALE	2.0	94.0	
504.0	MATTOON		SHALE & SANDSTONE	34.0	96.0	
470.0	MATTOON		GRAY SHALE	4.0	130.0	
466.0	MATTOON	TROWBRIDGE	COAL	2.0	134.0	
464.0	MATTOON		LIMESTONE	4.0	136.0	
460.0	MATTOON		SANDSTONE	1.6	140.0	
458.4	MATTOON	BOGOTA	LIMESTONE	2.4	141.6	UNCERTAIN CORRELATION
456.0	MATTOON		GRAY SHALE	15.0	144.0	
441.0	MATTOON	INGRAHAM	BLACK SHALE	0.7	159.0	
440.3	MATTOON		GRAY SHALE	76.3	159.7	
364.0	MATTOON	TEUTOPOLIS	BLACK SHALE	3.0	236.0	
361.0	MATTOON		GRAY SHALE & SANDSTONE	16.0	239.0	
345.0	MATTOON		LIMESTONE	2.0	255.0	
343.0	MATTOON		GRAY SHALE	60.0	257.0	
283.0	MATTOON		SANDSTONE	2.0	317.0	
281.0	MATTOON		BLACK SHALE	1.0	319.0	
280.0	MATTOON		SANDSTONE	8.0	320.0	
272.0	MATTOON		GRAY SHALE	43.0	328.0	
229.0	MATTOON		SANDSTONE	5.0	371.0	
224.0	MATTOON		GRAY SHALE	16.0	376.0	
208.0	MATTOON		SANDSTONE	2.0	392.0	
206.0	MATTOON		GRAY SHALE	170.0	394.0	
36.0	MATTOON		BLACK SHALE	2.0	564.0	
34.0	MATTOON		BLACK SHALE & CLAY	4.0	566.0	
30.0	MATTOON		GRAY SHALE	30.5	570.0	
-0.5	BOND	MILLERSVILLE	LIMESTONE	4.5	600.5	
-5.0	BOND		GRAY SHALE	4.0	605.0	
-9.0	BOND		BLACK SHALE	1.0	609.0	
-10.0	BOND		GRAY SHALE	72.0	610.0	
-82.0	BOND		DARK SHALE	5.0	682.0	
-87.0	BOND		GRAY SHALE	36.0	687.0	
-123.0	BOND		BLACK SHALE & CLAY	2.0	723.0	
-125.0	BOND		GRAY SHALE	46.0	725.0	
-171.0	BOND	CARTHAGE	LIMESTONE	5.0	771.0	
-176.0			BLACK SHALE	3.5	776.0	
-179.5	BOND		GRAY SHALE	56.5	779.5	

-236.0			BLACK SHALE	4.0	836.0	ACCORDING TO GAMMA LOG
-240.0	BOND		GRAY SHALE	82.0	840.0	
-322.0	BOND		DARK SHALE & BLACK SHALES	2.0	922.0	
-324.0	BOND		GRAY SHALE	24.0	924.0	
-348.0	BOND		SANDSTONE	8.0	948.0	
-356.0	BOND		SHALES	27.5	956.0	
-383.5			LIMESTONE	2.5	983.5	
-386.0	BOND		GRAY SHALE	44.0	986.0	
-430.0	BOND		SHALES & SANDSTONE	30.0	1030.0	
-460.0	BOND		GRAY SHALE	48.0	1060.0	
-508.0	CARBONDALE	DANVILLE	COAL	3.5	1108.0	
-511.5	CARBONDALE		UNDERCLAY	8.5	1111.5	
-520.0	CARBONDALE		LIMESTONE	2.5	1120.0	
-522.5	CARBONDALE		SHALES	12.5	1122.5	
-535.0	CARBONDALE	ANNA	BLACK SHALE	0.5	1135.0	
-535.5	CARBONDALE	HERRIN	COAL	6.5	1135.5	
-542.0	CARBONDALE		GRAY SHALE	20.0	1142.0	
-562.0	CARBONDALE		BLACK SHALE	0.5	1162.0	
-562.5	CARBONDALE	BRIAR HILL	COAL	2.0	1162.5	
-564.5	CARBONDALE		DARK SHALE	3.3	1164.5	
-567.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	1167.8	
-568.5	CARBONDALE	SPRINGFIELD	COAL	4.8	1168.5	
-573.3	CARBONDALE		GRAY SHALE	20.7	1173.3	

MAPID: 07923627000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 8 QUARTERS/FOOTAGES: 622' S line, 92' W line
 QUADRANGLE: WHEELER LONGITUDE: -88.353692 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.060498 DATE COLLECTED: 7 / 30 / 1981
 SURFACE ELEVATION (FT.): 588.0 LOGGED (FT.): 1436.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS, RESIST, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
486.0	MATTOON	FALMOUTH	BLACK SHALE	2.5	102.0	
483.5	MATTOON		UNCLASSIFIED	25.5	104.5	
458.0	MATTOON	WETWETHER	BLACK SHALE	3.0	130.0	
455.0	MATTOON		UNCLASSIFIED	7.0	133.0	
448.0	MATTOON	TROWBRIDGE	COAL	2.3	140.0	OFF DENSITY LOG
445.7	MATTOON	BOGOTA	LIMESTONE	3.8	142.3	
442.0	MATTOON		UNCLASSIFIED	18.0	146.0	
424.0	MATTOON	INGRAHAM	BLACK SHALE	7.0	164.0	
417.0	MATTOON		UNCLASSIFIED	41.0	171.0	
376.0	MATTOON		LIMESTONE	5.0	212.0	
371.0	MATTOON		UNCLASSIFIED	22.0	217.0	
349.0	MATTOON	SHUMWAY	LIMESTONE	4.0	239.0	
345.0	MATTOON		UNCLASSIFIED	3.5	243.0	
341.5	MATTOON	TEUTOPOLIS	BLACK SHALE	3.5	246.5	
338.0	MATTOON		UNCLASSIFIED	375.0	250.0	
-37.0	BOND	MILLERSVILLE	LIMESTONE	6.5	625.0	
-43.5	BOND		UNCLASSIFIED	71.5	631.5	
-115.0	BOND		BLACK SHALE	3.0	703.0	
-118.0	BOND		UNCLASSIFIED	85.0	706.0	
-203.0	BOND	CARTHAGE	LIMESTONE	3.5	791.0	
-206.5	MODESTO	NEW HAVEN	BLACK SHALE	3.5	794.5	
-210.0	MODESTO		UNCLASSIFIED	52.0	798.0	
-262.0	MODESTO	CHAPEL	BLACK SHALE	6.0	850.0	
-268.0	MODESTO		UNCLASSIFIED	144.0	856.0	
-412.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.5	1000.0	
-421.5	MODESTO	WEST FRANKLIN	SHALE	2.5	1009.5	
-424.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	1012.0	
-428.0	MODESTO		UNCLASSIFIED	108.5	1016.0	
-536.5	CARBONDALE	DANVILLE	COAL	3.5	1124.5	
-540.0	CARBONDALE		UNCLASSIFIED	6.5	1128.0	
-546.5	CARBONDALE	CONANT	LIMESTONE	3.5	1134.5	
-550.0	CARBONDALE		UNCLASSIFIED	0.5	1138.0	
-550.5	CARBONDALE	JAMESTOWN	COAL	1.3	1138.5	
-551.8	CARBONDALE		UNCLASSIFIED	12.0	1139.8	
-563.8	CARBONDALE	HERRIN	COAL	6.4	1151.8	
-570.2	CARBONDALE		UNCLASSIFIED	26.3	1158.2	
-596.5	CARBONDALE	BRIAR HILL	COAL	2.5	1184.5	
-599.0	CARBONDALE		SHALE	2.0	1187.0	
-601.0	CARBONDALE	TURNER MINE	BLACK SHALE	3.5	1189.0	

-604.5	CARBONDALE	SPRINGFIELD	COAL	3.5	1192.5	
-608.0	CARBONDALE		UNCLASSIFIED	61.0	1196.0	
-669.0	CARBONDALE	EXCELLO	BLACK SHALE	2.5	1257.0	COMBO OF GAMMA AND RESIST. LOG
-671.5	CARBONDALE	HOUCHIN CREEK	COAL	1.0	1259.5	
-672.5	CARBONDALE		UNCLASSIFIED	61.0	1260.5	
-733.5	CARBONDALE	SURVANT - UPPER	COAL	1.0	1321.5	
-734.5	CARBONDALE		UNCLASSIFIED	24.0	1322.5	
-758.5	CARBONDALE	SURVANT - LOWER	COAL	0.5	1346.5	
-759.0	CARBONDALE		UNCLASSIFIED	40.0	1347.0	
-799.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	1387.0	OFF GAMMA LOG
-801.0	CARBONDALE	COLCHESTER	COAL	2.0	1389.0	OFF RESIST LOG
-803.0	SPOON		UNCLASSIFIED	25.2	1391.0	
-828.2	SPOON	SEELYVILLE	COAL	6.1	1416.2	
-834.3	SPOON		UNCLASSIFIED	13.7	1422.3	

MAPID: 07900958000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 7N 8E **SECTION:** 10 **QUARTERS/FOOTAGES:** NW NE SE
QUADRANGLE: WHEELER **LONGITUDE:** -88.301665 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.061733 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 587.0 **LOGGED (FT.):** 1490.0 **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	
-258.0	BOND	CARTHAGE	LIMESTONE	5.0	845.0	
-602.0	CARBONDALE	DANVILLE	COAL	3.0	1189.0	
-643.0	CARBONDALE	HERRIN	COAL	4.5	1230.0	
-685.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1272.0	
-748.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1335.0	
-877.0	CARBONDALE	COLCHESTER	COAL	-	1464.0	
-897.0	SPOON	SEELYVILLE	COAL	6.0	1484.0	

MAPID: 07901114000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 7N 8E

SECTION: 10

QUARTERS/FOOTAGES: 660' N line, 330' W line

QUADRANGLE: WHEELER

LONGITUDE: -88.315276

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.069009

DATE COLLECTED:

SURFACE ELEVATION (FT.): 581.0

LOGGED (FT.): 1484.5

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	
-259.0	BOND	CARTHAGE	LIMESTONE	5.0	840.0	
-463.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	1044.0	
-577.0	CARBONDALE	DANVILLE	COAL	3.0	1158.0	
-602.0	CARBONDALE	JAMESTOWN	COAL	-	1183.0	
-614.0	CARBONDALE	HERRIN	COAL	3.0	1195.0	
-649.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1230.0	
-732.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1313.0	
-874.0	CARBONDALE	COLCHESTER	COAL	-	1455.0	
-897.0	SPOON	SEELYVILLE	COAL	6.5	1478.0	

MAPID: 07923177000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 12 QUARTERS/FOOTAGES: 2600' S line, 45' E line
 QUADRANGLE: WHEELER LONGITUDE: -88.260905 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.060705 DATE COLLECTED: 12 / 11 / 1979
 SURFACE ELEVATION (FT.): 570.0 LOGGED (FT.): 1520.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG7912-15C WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS, RESIST, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.0			UNCONSOLIDATED	8.0	0.0	
562.0	MATTOON		GRAY SHALE	20.0	8.0	
542.0	MATTOON		DARK SHALE & CLAYSTONE	4.0	28.0	
538.0	MATTOON		GRAY SHALE	14.0	32.0	
524.0	MATTOON		LIMESTONE	2.0	46.0	
522.0	MATTOON		SANDSTONE	4.0	48.0	
518.0	MATTOON		SANDSTONE/SHALE	6.0	52.0	
512.0	MATTOON		GRAY SHALE	67.0	58.0	
445.0	MATTOON		SANDSTONE/SHALE	5.0	125.0	
440.0	MATTOON	FALMOUTH	BLACK SHALE	3.0	130.0	OFF GAMMA LOG
437.0	MATTOON		GRAY SHALE	59.0	133.0	
378.0	MATTOON		LIMESTONE W/ SHALE	1.0	192.0	
377.0	MATTOON	BOGOTA	LIMESTONE	1.0	193.0	
376.0	MATTOON	INGRAHAM	BLACK SHALE	6.0	194.0	
370.0	MATTOON		GRAY SHALE	10.0	200.0	
360.0	MATTOON		SHALE & SANDSTONE	25.0	210.0	
335.0	MATTOON		GRAY SHALE	24.0	235.0	
311.0	MATTOON	SHUMWAY	LIMESTONE	7.0	259.0	MAYBE TOO THICK
304.0	MATTOON	TEUTOPOLIS	DARK SHALE	4.0	266.0	
300.0	MATTOON		GRAY SHALE	10.0	270.0	
290.0	MATTOON		SANDSTONE	10.0	280.0	
280.0	MATTOON		LIMESTONE	2.0	290.0	
278.0	MATTOON		SANDSTONE	4.0	292.0	
274.0	MATTOON		GRAY SHALE	24.0	296.0	
250.0	MATTOON		SANDSTONE/SHALE	9.0	320.0	
241.0	MATTOON		LIMESTONE	3.0	329.0	
238.0	MATTOON		GRAY SHALE	88.0	332.0	
150.0	MATTOON		SANDSTONE	100.0	420.0	
50.0	MATTOON		GRAY SHALE	44.0	520.0	
6.0	MATTOON		BLACK SHALE & CLAY	2.0	564.0	
4.0	MATTOON		GRAY SHALE	10.0	566.0	
-6.0	MATTOON		DARK SHALE	3.0	576.0	
-9.0	MATTOON		GRAY SHALE	30.5	579.0	
-39.5	MATTOON		COAL	2.5	609.5	
-42.0	MATTOON		GRAY SHALE	4.0	612.0	
-46.0	MATTOON		SANDSTONE	5.0	616.0	
-51.0	MATTOON		GRAY SHALE	16.0	621.0	
-67.0	MATTOON		SANDSTONE	33.5	637.0	

-100.5	BOND	MILLERSVILLE	LIMESTONE	4.0	670.5	
-104.5	BOND		SANDSTONE/SHALE	7.5	674.5	
-112.0	BOND		GRAY SHALE	14.0	682.0	
-126.0	BOND		COAL	2.0	696.0	
-128.0	BOND		GRAY SHALE	58.0	698.0	
-186.0	BOND		COAL	1.0	756.0	
-187.0	BOND		GRAY SHALE	39.0	757.0	
-226.0	BOND		DARK SHALE	2.5	796.0	
-228.5	BOND		GRAY SHALE	1.5	798.5	
-230.0	BOND		SANDSTONE	35.5	800.0	
-265.5	BOND	CARTHAGE	LIMESTONE	4.5	835.5	
-270.0	MODESTO	NEW HAVEN	BLACK SHALE	2.0	840.0	ACCORDING TO GAMMA LOG
-272.0	MODESTO		SANDSTONE	38.0	842.0	
-310.0	MODESTO		GRAY SHALE	20.8	880.0	
-330.8	MODESTO	CHAPEL	BLACK SHALE	1.4	900.8	ACCORDING TO GAMMA LOG
-332.2	MODESTO		SANDSTONE/SHALE	87.4	902.2	
-419.6	MODESTO		DARK SHALE & BLACK SHALE	2.4	989.6	
-422.0	MODESTO		SANDSTONE	20.0	992.0	
-442.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	1012.0	
-446.0	MODESTO	WEST FRANKLIN	GRAY SHALE	1.0	1016.0	
-447.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	1017.0	
-454.0	MODESTO		SHALE & SANDSTONE	7.0	1024.0	
-461.0	MODESTO		SHALE	9.0	1031.0	
-470.0	MODESTO		SANDSTONE	10.0	1040.0	
-480.0	MODESTO		GRAY SHALE	131.6	1050.0	
-611.6	CARBONDALE	DANVILLE	COAL	3.9	1181.6	
-615.5	CARBONDALE		UNDERCLAY	4.5	1185.5	
-620.0	CARBONDALE		GRAY SHALE	6.0	1190.0	
-626.0	CARBONDALE		SILTY SHALE	8.9	1196.0	CORE #1 1196-1205.5
-634.9	CARBONDALE	CONANT	LIMESTONE	0.6	1204.9	UNCERTAIN CORRELATION
-635.5	CARBONDALE	CONANT	LIMESTONE	1.2	1205.5	CORE #2 1205.5-1215
-636.7	CARBONDALE	JAMESTOWN	COAL	1.7	1206.7	UNCERTAIN CORRELATION
-638.4	CARBONDALE		DARK SHALE	2.2	1208.4	
-640.6	CARBONDALE	BRERETON	LIMESTONE	4.4	1210.6	
-645.0	CARBONDALE	BRERETON	LIMESTONE	1.2	1215.0	CORE #3 1215-1224.5
-646.2	CARBONDALE	ANNA	BLACK SHALE	2.6	1216.2	
-648.8	CARBONDALE	HERRIN	COAL	5.7	1218.8	
-654.5	CARBONDALE		UNDERCLAY	4.5	1224.5	CORE #4 1224.5-1234
-659.0	CARBONDALE		SILTY SHALE	5.0	1229.0	
-664.0	CARBONDALE		SILTY SHALE	9.5	1234.0	CORE #5 1234-1243.5
-673.5	CARBONDALE		DARK SHALE	7.8	1243.5	CORE #6 1243.5-1253
-681.3	CARBONDALE	BRIAR HILL	COAL WITH SHALE	1.7	1251.3	
-683.0	CARBONDALE		DARK SHALE	3.3	1253.0	CORE #7 1253-1262.5
-686.3	CARBONDALE	ST. DAVID	LIMESTONE	0.2	1256.3	
-686.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	1256.5	
-687.3	CARBONDALE	SPRINGFIELD	COAL	4.7	1257.3	
-692.0	CARBONDALE		UNDERCLAY	0.5	1262.0	

-692.5	CARBONDALE		UNDERCLAY	3.5	1262.5	CORE #8 1262.5-1272
-696.0	CARBONDALE		SILTY SHALE	6.0	1266.0	
-702.0	CARBONDALE		SILTY SHALE	5.0	1272.0	CORE #9 1272-1277
-707.0	CARBONDALE		UNKNOWN	0.5	1277.0	
-707.5	CARBONDALE		GRAY SHALE	60.0	1277.5	
-767.5	CARBONDALE	EXCELLO	LIMESTONE W/ SHALE	2.2	1337.5	
-769.7	CARBONDALE	HOUCHIN CREEK	COAL	1.8	1339.7	
-771.5	CARBONDALE		GRAY SHALE	76.5	1341.5	
-848.0	CARBONDALE	SURVANT - UPPER	COAL	1.0	1418.0	
-849.0	CARBONDALE		GRAY SHALE	25.0	1419.0	
-874.0	CARBONDALE	SURVANT - LOWER	COAL	1.5	1444.0	
-875.5	CARBONDALE		GRAY SHALE	2.5	1445.5	
-878.0	CARBONDALE	OAK GROVE	LIMESTONE	2.0	1448.0	
-880.0	CARBONDALE		GRAY SHALE	21.5	1450.0	
-901.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.5	1471.5	ACCORDING TO GAMMA LOG
-904.0	CARBONDALE	COLCHESTER	COAL	1.0	1474.0	
-905.0	SPOON		GRAY SHALE	17.5	1475.0	
-922.5	SPOON	SEELYVILLE	COAL	7.5	1492.5	
-930.0	SPOON		GRAY SHALE	20.0	1500.0	

MAPID: 07900495000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 7N 8E **SECTION:** 13 **QUARTERS/FOOTAGES:** NE SW SE
QUADRANGLE: WHEELER **LONGITUDE:** -88.266543 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.042 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 573.0 **LOGGED (FT.):** 1493.0 **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
-279.0	BOND	CARTHAGE	LIMESTONE	6.0	852.0
-442.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	1015.0
-604.0	CARBONDALE	DANVILLE	COAL	3.0	1177.0
-641.0	CARBONDALE	HERRIN	COAL	4.0	1214.0
-677.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1250.0
-759.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1332.0
-888.0	CARBONDALE	COLCHESTER	COAL	-	1461.0
-914.0	SPOON	SEELYVILLE	COAL	6.0	1487.0

MAPID: 07924121000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 14 QUARTERS/FOOTAGES: 738' S line, 60' W line
 QUADRANGLE: WHEELER LONGITUDE: -88.297899 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.042631 DATE COLLECTED: 12 / 9 / 1980
 SURFACE ELEVATION (FT.): 577.0 LOGGED (FT.): 1500.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG8014-17C WELL TYPE: Coal Test
 COMMENT: GAMMA, DENSITY, RESIST. AND DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
577.0			UNCONSOLIDATED	26.0	0.0	
551.0	MATTOON		BROWN SHALE	5.0	26.0	
546.0	MATTOON		SANDSTONE	1.0	31.0	
545.0	MATTOON		GRAY SHALE	74.0	32.0	
471.0	MATTOON	FALMOUTH	BLACK SHALE	2.0	106.0	OFF GAMMA LOG
469.0	MATTOON		LIMESTONE W/ SHALE	1.0	108.0	
468.0	MATTOON		SHALE	13.0	109.0	
455.0	MATTOON		SANDSTONE/SHALE	12.0	122.0	
443.0	MATTOON	WETWETHER	BLACK SHALE	2.5	134.0	OFF GAMMA LOG
440.5	MATTOON		DARK SHALE	7.5	136.5	
433.0	MATTOON	TROWBRIDGE	COAL	2.0	144.0	OFF GAMMA
431.0	MATTOON		SHALE	17.0	146.0	
414.0	MATTOON	BOGOTA	LIMESTONE	1.0	163.0	
413.0	MATTOON	INGRAHAM	BLACK SHALE	5.0	164.0	OFF GAMMA
408.0	MATTOON		DARK SHALE	7.0	169.0	
401.0	MATTOON		LIMESTONE	2.0	176.0	
399.0	MATTOON		GRAY SHALE	51.0	178.0	
348.0	MATTOON		SANDSTONE	2.0	229.0	
346.0	MATTOON		GRAY SHALE	11.0	231.0	
335.0	MATTOON	TEUTOPOLIS	BLACK SHALE	2.0	242.0	
333.0	MATTOON		SHALE	45.0	244.0	
288.0	MATTOON		LIMESTONE	1.0	289.0	
287.0	MATTOON		GRAY SHALE	38.0	290.0	
249.0	MATTOON		SANDSTONE	54.0	328.0	
195.0	MATTOON		LIMESTONE	5.5	382.0	
189.5	MATTOON		SANDSTONE	32.5	387.5	
157.0	MATTOON		SHALE & SANDSTONE	16.0	420.0	
141.0	MATTOON		SANDSTONE	34.0	436.0	
107.0	MATTOON		GRAY SHALE	144.0	470.0	
-37.0	MATTOON		SANDSTONE	12.0	614.0	
-49.0	MATTOON		SHALE & SANDSTONE	24.5	626.0	
-73.5	MATTOON		GRAY SHALE	0.5	650.5	
-74.0	MATTOON		GRAY SHALE	6.5	651.0	
-80.5	BOND	MILLERSVILLE	LIMESTONE	3.0	657.5	
-83.5	BOND		SANDSTONE	3.5	660.5	
-87.0	BOND		GRAY SHALE	13.0	664.0	
-100.0	BOND		COAL	1.0	677.0	
-101.0	BOND		GRAY SHALE	5.5	678.0	
-106.5	BOND		LIMESTONE W/ SHALE	1.0	683.5	

-107.5	BOND		GRAY SHALE	49.0	684.5	
-156.5	BOND		COAL	2.5	733.5	
-159.0	BOND		GRAY SHALE	35.0	736.0	
-194.0	BOND		COAL	2.0	771.0	
-196.0	BOND		GRAY SHALE	43.0	773.0	
-239.0	BOND	CARTHAGE	LIMESTONE	5.5	816.0	
-244.5	MODESTO	NEW HAVEN	DARK SHALE	2.5	821.5	
-247.0	MODESTO		GRAY SHALE	43.0	824.0	
-290.0	MODESTO		DARK SHALE	17.0	867.0	
-307.0	MODESTO		BLACK SHALE	3.0	884.0	OFF E-LOGS -3FT
-310.0	MODESTO	CHAPEL	COAL	1.0	887.0	
-311.0	MODESTO		GRAY SHALE	79.0	888.0	
-390.0	MODESTO		COAL	1.0	967.0	
-391.0	MODESTO		GRAY SHALE	23.7	968.0	
-414.7	MODESTO	WEST FRANKLIN	LIMESTONE	4.8	991.7	
-419.5	MODESTO		GRAY SHALE	0.5	996.5	
-420.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	997.0	
-427.0	MODESTO		GRAY SHALE	13.8	1004.0	
-440.8	MODESTO		LIMESTONE	0.5	1017.8	
-441.3	MODESTO		GRAY SHALE	140.7	1018.3	
-582.0	CARBONDALE	DANVILLE	COAL	3.5	1159.0	
-585.5	CARBONDALE		GRAY SHALE	21.5	1162.5	
-607.0	CARBONDALE	CONANT	LIMESTONE	2.5	1184.0	
-609.5	CARBONDALE	JAMESTOWN	COAL	2.0	1186.5	
-611.5	CARBONDALE		GRAY SHALE	3.9	1188.5	
-615.4	CARBONDALE	BRERETON	LIMESTONE	2.6	1192.4	NO DESC.
-618.0	CARBONDALE		UNCLASSIFIED	3.2	1195.0	CORE #1 1195-1205' BRERETON LS
-621.2	CARBONDALE	HERRIN	COAL	5.5	1198.2	
-626.7	CARBONDALE		UNCLASSIFIED	1.3	1203.7	
-628.0	CARBONDALE		GRAY SHALE	22.0	1205.0	
-650.0	CARBONDALE	BRIAR HILL	COAL	2.3	1227.0	
-652.3	CARBONDALE		GRAY SHALE	3.2	1229.3	
-655.5	CARBONDALE	ST. DAVID	LIMESTONE	3.0	1232.5	
-658.5	CARBONDALE	SPRINGFIELD	COAL	4.5	1235.5	
-663.0	CARBONDALE		GRAY SHALE	74.0	1240.0	
-737.0	CARBONDALE	HANOVER	LIMESTONE	1.0	1314.0	
-738.0	CARBONDALE	EXCELLO	BLACK SHALE	1.5	1315.0	OFF GAMMA
-739.5	CARBONDALE	HOUCHIN CREEK	COAL	2.0	1316.5	
-741.5	CARBONDALE		GRAY SHALE	28.5	1318.5	
-770.0	CARBONDALE		SHALE & SANDSTONE	13.0	1347.0	
-783.0	CARBONDALE		GRAY SHALE	31.0	1360.0	
-814.0	CARBONDALE	SURVANT - UPPER	COAL	1.5	1391.0	
-815.5	CARBONDALE		GRAY SHALE	26.5	1392.5	
-842.0	CARBONDALE	SURVANT - LOWER	COAL	1.0	1419.0	
-843.0	CARBONDALE		GRAY SHALE	25.0	1420.0	
-868.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.5	1445.0	OFF GAMMA
-869.5	CARBONDALE	COLCHESTER	COAL	1.5	1446.5	
-871.0	SPOON		GRAY SHALE	18.0	1448.0	

-889.0	SPOON		SILTSTONE	5.8	1466.0	CORE #2 1466-1481
-894.8	SPOON		GRAY SHALE	3.4	1471.8	
-898.1	SPOON		UNCLASSIFIED	0.5	1475.1	
-898.6	SPOON	SEELYVILLE	COAL	6.9	1475.6	
-905.5	SPOON		UNCLASSIFIED	0.5	1482.5	CORE #3 1481-1495.5
-906.0	SPOON		CLAYSTONE & SILTSTONE	5.0	1483.0	
-911.0	SPOON		GRAY SHALE	1.3	1488.0	
-912.3	SPOON		CLAYSTONE & SILTSTONE	0.9	1489.3	
-913.1	SPOON		GRAY SHALE	0.1	1490.1	
-913.2	SPOON		LIMESTONE	0.4	1490.2	
-913.6	SPOON		BLACK SHALE	1.0	1490.6	
-914.6	SPOON		COAL	0.6	1491.6	
-915.2	SPOON		CLAYSTONE & SILTSTONE	0.8	1492.2	
-916.0	SPOON		GRAY SHALE	7.0	1493.0	

MAPID: 07922818000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 19 QUARTERS/FOOTAGES: 47' N line, 38' W line
 QUADRANGLE: WHEELER LONGITUDE: -88.361522 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.044372 DATE COLLECTED: 4 / 30 / 1979
 SURFACE ELEVATION (FT.): 585.0 LOGGED (FT.): 1180.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG79-19-4C WELL TYPE: Coal Test
 COMMENT: GAM, DENS, RESIST, & DRILL LOG CORE DESC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
585.0			UNCONSOLIDATED	19.0	0.0
566.0	MATTOON		GRAY SHALE	45.0	19.0
521.0	MATTOON	FALMOUTH	BLACK SHALE	6.0	64.0
515.0	MATTOON		SHALE & SANDSTONE	26.0	70.0
489.0	MATTOON		GRAY SHALE	14.0	96.0
475.0	MATTOON		LIMESTONE	1.5	110.0
473.5	MATTOON		GRAY SHALE	1.0	111.5
472.5	MATTOON		LIMESTONE	1.5	112.5
471.0	MATTOON		COAL	2.0	114.0
469.0	MATTOON		GRAY SHALE	12.0	116.0
457.0	MATTOON	INGRAHAM	BLACK SHALE	6.0	128.0
451.0	MATTOON		GRAY SHALE	11.0	134.0
440.0	MATTOON		LIMESTONE	11.0	145.0
429.0	MATTOON		GRAY SHALE	59.0	156.0
370.0	MATTOON	SHUMWAY	LIMESTONE	1.0	215.0
369.0	MATTOON	TEUTOPOLIS	BLACK SHALE	3.0	216.0
366.0	MATTOON		GRAY SHALE	43.0	219.0
323.0	MATTOON		SANDSTONE	27.0	262.0
296.0	MATTOON		GRAY SHALE	30.5	289.0
265.5	MATTOON		LIMESTONE	1.5	319.5
264.0	MATTOON		SANDSTONE	7.0	321.0
257.0	MATTOON		GRAY SHALE	42.0	328.0
215.0	MATTOON		SANDSTONE	13.0	370.0
202.0	MATTOON		LIMESTONE	1.0	383.0
201.0	MATTOON		GRAY SHALE	74.0	384.0
127.0	MATTOON		BLACK SHALE	1.0	458.0
126.0	MATTOON		GRAY SHALE	59.0	459.0
67.0	MATTOON		COAL	1.0	518.0
66.0	MATTOON		GRAY SHALE	1.0	519.0
65.0	MATTOON		SANDSTONE	52.0	520.0
13.0	MATTOON		GRAY SHALE	14.0	572.0
-1.0	MATTOON		COAL	1.0	586.0
-2.0	MATTOON		GRAY SHALE	3.5	587.0
-5.5	BOND	MILLERSVILLE	LIMESTONE	4.2	590.5
-9.7	BOND		GRAY SHALE	3.3	594.7
-13.0	BOND		BLACK SHALE	2.5	598.0
-15.5	BOND		GRAY SHALE	70.5	600.5
-86.0	BOND		COAL WITH SHALE	3.0	671.0
-89.0	BOND		GRAY SHALE	39.0	674.0

-128.0	BOND		COAL	2.5	713.0	
-130.5	BOND		GRAY SHALE	57.0	715.5	
-187.5	BOND	CARTHAGE	LIMESTONE	6.0	772.5	
-193.5	MODESTO	NEW HAVEN	BLACK SHALE	1.5	778.5	
-195.0	MODESTO		GRAY SHALE	32.0	780.0	
-227.0	MODESTO		LIMESTONE/SHALE/SANDS TONE	6.0	812.0	
-233.0	MODESTO	CHAPEL	BLACK SHALE	2.0	818.0	
-235.0	MODESTO		GRAY SHALE	10.0	820.0	
-245.0	MODESTO		SANDSTONE	20.0	830.0	
-265.0	MODESTO		GRAY SHALE	21.0	850.0	
-286.0	MODESTO		SANDSTONE	9.0	871.0	
-295.0	MODESTO		GRAY SHALE	37.0	880.0	
-332.0	MODESTO		SANDSTONE/SHALE	25.0	917.0	
-357.0	MODESTO		GRAY SHALE	28.0	942.0	
-385.0	MODESTO		SANDSTONE	4.0	970.0	
-389.0	MODESTO		GRAY SHALE	120.0	974.0	
-509.0	CARBONDALE	DANVILLE	COAL	3.7	1094.0	
-512.7	CARBONDALE		UNDERCLAY	1.3	1097.7	
-514.0	CARBONDALE		GRAY SHALE	6.5	1099.0	
-520.5	CARBONDALE	CONANT	LIMESTONE	2.5	1105.5	UNCERTAIN CORRELATION
-523.0	CARBONDALE		GRAY SHALE	0.7	1108.0	
-523.7	CARBONDALE	JAMESTOWN	COAL	1.1	1108.7	
-524.8	CARBONDALE		GRAY SHALE	2.2	1109.8	
-527.0	CARBONDALE	BRERETON	LIMESTONE	4.7	1112.0	
-531.7	CARBONDALE	ANNA	BLACK SHALE	0.3	1116.7	
-532.0	CARBONDALE	ANNA	BLACK SHALE	1.7	1117.0	CORE #1 1117-1125
-533.7	CARBONDALE	HERRIN	COAL	3.3	1118.7	"BLUE BAND"
-537.0	CARBONDALE	HERRIN	CLAYSTONE	0.1	1122.0	
-537.1	CARBONDALE	HERRIN	COAL	2.4	1122.1	
-539.4	CARBONDALE		UNDERCLAY	0.4	1124.4	
-539.8	CARBONDALE		UNKNOWN	0.2	1124.8	CORE LOSS
-540.0	CARBONDALE		GRAY SHALE	24.5	1125.0	
-564.5	CARBONDALE		BLACK SHALE & CLAY	0.5	1149.5	
-565.0	CARBONDALE	BRIAR HILL	COAL	1.6	1150.0	CORE #2 1150-1160.5
-566.6	CARBONDALE	TURNER MINE	BLACK SHALE	4.2	1151.6	
-570.8	CARBONDALE	SPRINGFIELD	COAL	4.7	1155.8	
-575.4	CARBONDALE		UNKNOWN	0.1	1160.4	CORE LOSS
-575.5	CARBONDALE		GRAY SHALE	19.5	1160.5	

MAPID: 07922549000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 21 QUARTERS/FOOTAGES: 330' N line, 97' E line of NW NW NE
QUADRANGLE: WHEELER LONGITUDE: -88.323979 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.041224 DATE COLLECTED:
SURFACE ELEVATION (FT.): 597.0 LOGGED (FT.): 1463.0 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
-215.0	BOND	CARTHAGE	LIMESTONE	4.0	812.0
-398.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	995.0
-553.0	CARBONDALE	DANVILLE	COAL	3.0	1150.0
-593.0	CARBONDALE	HERRIN	COAL	4.0	1190.0
-633.0	CARBONDALE	SPRINGFIELD	COAL	2.0	1230.0
-696.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1293.0
-840.0	CARBONDALE	COLCHESTER	COAL	-	1437.0
-860.0	SPOON	SEELYVILLE	COAL	6.0	1457.0

MAPID: 07900496000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 27 QUARTERS/FOOTAGES: SE SE SW
QUADRANGLE: WHEELER LONGITUDE: -88.308598 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.012924 DATE COLLECTED:
SURFACE ELEVATION (FT.): 572.0 LOGGED (FT.): 1455.0 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	BOND	CARTHAGE	LIMESTONE	5.0	795.0
-340.0	MODESTO	TRIVOLI	SANDSTONE	95.0	912.0
-576.0	CARBONDALE	DANVILLE	COAL	2.0	1148.0
-613.0	CARBONDALE	HERRIN	COAL	5.5	1185.0
-665.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1237.0
-732.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1304.0
-863.0	CARBONDALE	COLCHESTER	COAL	-	1435.0
-876.0	SPOON	SEELYVILLE	COAL	7.0	1448.0

MAPID: 07900556000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 28 QUARTERS/FOOTAGES: NW SE SE

QUADRANGLE: WHEELER LONGITUDE: -88.320156 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.015474 DATE COLLECTED:

SURFACE ELEVATION (FT.): 574.0 LOGGED (FT.): 1444.0 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	BOND	CARTHAGE	LIMESTONE	5.0	801.0
-399.0	MODESTO	TRIVOLI	SANDSTONE	54.0	973.0
-569.0	CARBONDALE	DANVILLE	COAL	3.5	1143.0
-609.0	CARBONDALE	HERRIN	COAL	5.0	1183.0
-654.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1228.0
-724.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1298.0
-849.0	CARBONDALE	COLCHESTER	COAL	-	1423.0
-864.0	SPOON	SEELYVILLE	COAL	6.0	1438.0

MAPID: 07922777000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 28 QUARTERS/FOOTAGES: 40' N line, 825' E line
 QUADRANGLE: WHEELER LONGITUDE: -88.31963 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.027047 DATE COLLECTED: 10 / 16 / 1978
 SURFACE ELEVATION (FT.): 576.0 LOGGED (FT.): 1260.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG-78-18C WELL TYPE: Coal Test
 COMMENT: G,D,R,LOGS & CORE DESC (DRIL L UPTO MVL)

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
576.0			UNCONSOLIDATED	46.0	0.0	
530.0	MATTOON		GRAY SHALE	38.0	46.0	
492.0	MATTOON	FALMOUTH	BLACK SHALE	2.0	84.0	
490.0	MATTOON		GRAY SHALE	12.0	86.0	
478.0	MATTOON		SANDSTONE	8.0	98.0	
470.0	MATTOON		GRAY SHALE	18.0	106.0	
452.0	MATTOON	INGRAHAM	BLACK SHALE & CLAY	4.0	124.0	
448.0	MATTOON	BOGOTA	LIMESTONE	2.0	128.0	
446.0	MATTOON		GRAY SHALE	16.0	130.0	
430.0	MATTOON	INGRAHAM	BLACK SHALE & CLAY	7.0	146.0	
423.0	MATTOON		GRAY SHALE	8.0	153.0	
415.0	MATTOON		LIMESTONE	2.4	161.0	
412.6	MATTOON		GRAY SHALE	64.6	163.4	
348.0	MATTOON	TEUTOPOLIS	BLACK SHALE	3.0	228.0	
345.0	MATTOON		SANDSTONE	29.0	231.0	
316.0	MATTOON		GRAY SHALE	20.0	260.0	
296.0	MATTOON		SANDSTONE/SHALE	180.0	280.0	
116.0	MATTOON		GRAY SHALE	117.0	460.0	
-1.0	MATTOON		BLACK SHALE	2.0	577.0	
-3.0	MATTOON		GRAY SHALE	61.0	579.0	REST FROM E. LOG
-64.0	BOND	MILLERSVILLE	LIMESTONE	6.0	640.0	
-70.0	BOND		UNCLASSIFIED	111.0	646.0	
-181.0	BOND		COAL	2.0	757.0	
-183.0	BOND		UNCLASSIFIED	42.0	759.0	
-225.0	BOND	CARTHAGE	LIMESTONE	5.0	801.0	
-230.0	MODESTO	NEW HAVEN	BLACK SHALE	2.0	806.0	
-232.0	MODESTO		UNCLASSIFIED	66.0	808.0	
-298.0	MODESTO	CHAPEL	BLACK SHALE	4.0	874.0	
-302.0	MODESTO		UNCLASSIFIED	104.0	878.0	
-406.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	982.0	
-421.0	MODESTO		UNCLASSIFIED	153.0	997.0	
-574.0	MODESTO		SHALE	0.8	1150.0	CORE #1 1150-1155
-574.8	CARBONDALE	DANVILLE	COAL	3.1	1150.8	3.25' LOWER ON E. LOG
-577.9	CARBONDALE		UNDERCLAY	1.1	1153.9	
-578.9	CARBONDALE		CORE LOSS	0.1	1154.9	
-579.0	CARBONDALE		UNCLASSIFIED	29.5	1155.0	
-608.5	CARBONDALE	BRERETON	LIMESTONE	6.5	1184.5	
-615.0	CARBONDALE	ANNA	BLACK SHALE	3.0	1191.0	CORE #2 1191-1200 ACCORDING TO E. LOG
-618.0	CARBONDALE	HERRIN	COAL	5.7	1194.0	

-623.7	CARBONDALE		UNDERCLAY	0.4	1199.7	
-624.0	CARBONDALE		UNCLASSIFIED	22.5	1200.0	
-646.5	CARBONDALE	BRIAR HILL	COAL	2.0	1222.5	
-648.5	CARBONDALE		UNCLASSIFIED	3.0	1224.5	
-651.5	CARBONDALE	ST. DAVID	LIMESTONE	5.5	1227.5	
-657.0	CARBONDALE		UNCLASSIFIED	3.5	1233.0	
-660.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	1236.5	CORE #3 1236.5-1242.5 ACCORDING TO E.LOG
-661.2	CARBONDALE	SPRINGFIELD	COAL	3.3	1237.2	
-664.5	CARBONDALE		CORE LOSS	1.0	1240.5	PROBABLY COAL
-665.5	CARBONDALE		UNDERCLAY	0.9	1241.5	
-666.3	CARBONDALE		CORE LOSS	0.2	1242.3	
-666.5	CARBONDALE		UNCLASSIFIED	17.5	1242.5	

MAPID: 07923384000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 29 QUARTERS/FOOTAGES: 55' S line, 2004' E line
 QUADRANGLE: WHEELER LONGITUDE: -88.342139 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.014408 DATE COLLECTED: 12 / 19 / 1980
 SURFACE ELEVATION (FT.): 575.0 LOGGED (FT.): 1455.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG8029-18C WELL TYPE: Coal Test
 COMMENT: GAM, DENS, RESIS, & DRIL LOG & CORE DESC

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
575.0			UNCONSOLIDATED	101.0	0.0	
474.0	MATTOON	INGRAHAM	GRAY SHALE	9.0	101.0	
465.0	MATTOON		BLACK SHALE	6.0	110.0	OFF GAMMA LOG
459.0	MATTOON		DARK SHALE	4.0	116.0	OFF GAMMA LOG
455.0	MATTOON		LIMESTONE	4.0	120.0	OFF GAMMA LOG
451.0	MATTOON		SHALE	56.0	124.0	OFF GAMMA LOG
395.0	MATTOON	SHUMWAY	LIMESTONE	2.0	180.0	OFF GAMMA LOG
393.0	MATTOON		SHALE	6.0	182.0	OFF GAMMA LOG
387.0	MATTOON	TEUTOPOLIS	BLACK SHALE	3.0	188.0	OFF GAMMA LOG
384.0			GRAY SHALE	17.5	191.0	OFF GAMMA LOG
366.5	MATTOON		LIMESTONE	1.5	208.5	
365.0	MATTOON		GRAY SHALE	18.0	210.0	
347.0	MATTOON		SANDSTONE/SHALE	20.0	228.0	
327.0	MATTOON		GRAY SHALE	21.0	248.0	
306.0	MATTOON		SANDSTONE	28.5	269.0	
277.5	MATTOON		LIMESTONE	1.0	297.5	
276.5	MATTOON		SANDSTONE	27.5	298.5	
249.0	MATTOON		LIMESTONE	1.0	326.0	
248.0	MATTOON		SANDSTONE	9.0	327.0	
239.0	MATTOON		GRAY SHALE	2.0	336.0	
237.0	MATTOON		SANDSTONE	58.0	338.0	
179.0	MATTOON		GRAY SHALE	4.0	396.0	
175.0	MATTOON		SANDSTONE	44.0	400.0	
131.0	MATTOON		LIMESTONE	2.0	444.0	
129.0	MATTOON		GRAY SHALE	51.0	446.0	
78.0	MATTOON		SANDSTONE	7.0	497.0	
71.0	MATTOON		GRAY SHALE	7.0	504.0	
64.0	MATTOON		SANDSTONE	9.0	511.0	
55.0	MATTOON		GRAY SHALE	85.0	520.0	
-30.0	MATTOON		COAL	1.0	605.0	
-31.0	MATTOON		GRAY SHALE	6.0	606.0	
-37.0	BOND	MILLERSVILLE	LIMESTONE	4.0	612.0	
-41.0	BOND		GRAY SHALE	2.0	616.0	
-43.0	BOND		BLACK SHALE	1.0	618.0	
-44.0	BOND		GRAY SHALE	67.0	619.0	
-111.0	BOND		COAL	2.0	686.0	
-113.0	BOND		GRAY SHALE	2.5	688.0	
-115.5	BOND		LIMESTONE	2.0	690.5	

-117.5	BOND		SHALE	1.0	692.5	
-118.5	BOND		LIMESTONE	0.5	693.5	
-119.0	BOND		GRAY SHALE	32.0	694.0	
-151.0	BOND		COAL	2.0	726.0	
-153.0	BOND		GRAY SHALE	9.0	728.0	
-162.0	BOND		LIMESTONE	1.0	737.0	
-163.0	BOND		GRAY SHALE	28.0	738.0	
-191.0	BOND	CARTHAGE	LIMESTONE	6.5	766.0	
-197.5	MODESTO	NEW HAVEN	BLACK SHALE & CLAY	1.0	772.5	
-198.5	MODESTO		GRAY SHALE	62.0	773.5	
-260.5	MODESTO	CHAPEL	COAL	2.5	835.5	
-263.0	MODESTO		GRAY SHALE	42.0	838.0	TRIVOLI TOP ABOUT 880-928 ON GAMMA LOG
-305.0	MODESTO	TRIVOLI	SANDSTONE	48.0	880.0	
-353.0	MODESTO		GRAY SHALE	24.0	928.0	
-377.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.0	952.0	
-392.0	MODESTO		SANDSTONE	9.0	967.0	
-401.0	MODESTO		GRAY SHALE	143.5	976.0	
-544.5	CARBONDALE	DANVILLE	COAL	3.5	1119.5	
-548.0	CARBONDALE		GRAY SHALE	19.5	1123.0	
-567.5	CARBONDALE	CONANT	LIMESTONE	1.5	1142.5	
-569.0	CARBONDALE	JAMESTOWN	COAL	2.8	1144.0	
-571.8	CARBONDALE		SHALE	3.2	1146.8	
-575.0	CARBONDALE	BRERETON	LIMESTONE	5.8	1150.0	
-580.8	CARBONDALE	ANNA	BLACK SHALE	1.3	1155.8	CORE #1 1154-1163 NO CORE DESC.
-582.0	CARBONDALE	HERRIN	COAL	5.5	1157.0	
-587.5	CARBONDALE		UNCLASSIFIED	0.5	1162.5	
-588.0	CARBONDALE		GRAY SHALE	28.0	1163.0	
-616.0	CARBONDALE	ST. DAVID	LIMESTONE	3.0	1191.0	OFF GAMMA LOG
-619.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	1194.0	
-621.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1196.0	
-625.0	CARBONDALE		GRAY SHALE	70.5	1200.0	
-695.5	CARBONDALE	HANOVER	LIMESTONE	2.5	1270.5	
-698.0	CARBONDALE	HOUCHIN CREEK	COAL	1.0	1273.0	
-699.0	CARBONDALE		GRAY SHALE	70.0	1274.0	
-769.0	CARBONDALE		LIMESTONE W/ SHALE	1.5	1344.0	
-770.5	CARBONDALE	SURVANT - UPPER	COAL	1.5	1345.5	
-772.0	CARBONDALE		GRAY SHALE	2.0	1347.0	
-774.0	CARBONDALE		SANDSTONE	7.0	1349.0	
-781.0	CARBONDALE		GRAY SHALE	19.0	1356.0	
-800.0	CARBONDALE		SANDSTONE	1.3	1375.0	
-801.3	CARBONDALE	SURVANT - LOWER	COAL	0.7	1376.3	
-802.0	CARBONDALE		GRAY SHALE	27.5	1377.0	
-829.5	CARBONDALE	MECCA QUARRY	BLACK SHALE	1.5	1404.5	
-831.0	CARBONDALE	COLCHESTER	COAL	1.0	1406.0	
-832.0	SPOON		GRAY SHALE	20.0	1407.0	
-852.0	SPOON		UNCLASSIFIED	3.0	1427.0	CORE #2 1427-1438'
-855.0	SPOON	SEELYVILLE	COAL	8.0	1430.0	

-863.0 SPOON

SHALE

17.0 1438.0

MAPID: 07900497000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 33 QUARTERS/FOOTAGES: 326' N line, 330' W line of SW NE
QUADRANGLE: WHEELER LONGITUDE: -88.324614 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.008481 DATE COLLECTED:
SURFACE ELEVATION (FT.): 573.0 LOGGED (FT.): 1465.0 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
-229.0	BOND	CARTHAGE	LIMESTONE	6.0	802.0
-408.0	MODESTO	TRIVOLI	SANDSTONE	54.0	981.0
-579.0	CARBONDALE	DANVILLE	COAL	3.0	1152.0
-619.0	CARBONDALE	HERRIN	COAL	4.0	1192.0
-661.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1234.0
-739.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1312.0
-862.0	CARBONDALE	COLCHESTER	COAL	-	1435.0
-886.0	SPOON	SEELYVILLE	COAL	6.0	1459.0

MAPID: 07900176000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 34 QUARTERS/FOOTAGES: 2310' S line, 330' E line of SW
QUADRANGLE: WHEELER LONGITUDE: -88.308318 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.003683 DATE COLLECTED:
SURFACE ELEVATION (FT.): 571.0 LOGGED (FT.): 1197.0 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
-622.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1193.0

MAPID: 07900957000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 34 QUARTERS/FOOTAGES: NE SE NE
QUADRANGLE: WHEELER LONGITUDE: -88.299132 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.00683 DATE COLLECTED:
SURFACE ELEVATION (FT.): 566.0 LOGGED (FT.): 1212.0 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
-222.0	BOND	CARTHAGE	LIMESTONE	5.0	788.0
-556.0	CARBONDALE	DANVILLE	COAL	3.0	1122.0
-596.0	CARBONDALE	HERRIN	COAL	5.0	1162.0
-641.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1207.0

MAPID: 07901768000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 34 QUARTERS/FOOTAGES: SW SE SW
QUADRANGLE: LATONA LONGITUDE: -88.310481 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.998354 DATE COLLECTED:
SURFACE ELEVATION (FT.): 565.0 LOGGED (FT.): 1433.0 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
-218.0	BOND	CARTHAGE	LIMESTONE	5.0	783.0
-347.0	MODESTO	TRIVOLI	SANDSTONE	58.0	912.0
-426.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	991.0
-558.0	CARBONDALE	DANVILLE	COAL	3.0	1123.0
-596.0	CARBONDALE	HERRIN	COAL	5.0	1161.0
-639.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1204.0
-835.0	CARBONDALE	COLCHESTER	COAL	-	1400.0
-862.0	SPOON	SEELYVILLE	COAL	6.0	1427.0

MAPID: 07924691000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 35 QUARTERS/FOOTAGES: 696' N line, 69' W line
 QUADRANGLE: WHEELER LONGITUDE: -88.297839 GEOLOGIST: SROKA
 CONFIDENTIAL: N LATITUDE: 39.009417 DATE COLLECTED: 6 / 30 / 1980
 SURFACE ELEVATION (FT.): 566.0 LOGGED (FT.): 1482.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL IG8035-16C WELL TYPE: Coal Test
 COMMENT: GAMMA, RESIT, DENS, DRILL LOG, CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
566.0			UNCONSOLIDATED	80.0	0.0	
486.0	MATTOON		SANDSTONE	3.0	80.0	GREEN
483.0	MATTOON		SHALE	21.0	83.0	
462.0	MATTOON		BLACK SHALE	2.0	104.0	
460.0	MATTOON		SHALY LIMESTONE	6.0	106.0	
454.0	MATTOON		SHALE	11.5	112.0	
442.5	MATTOON		LIMESTONE	1.5	123.5	
441.0	MATTOON		SHALE	2.0	125.0	
439.0	MATTOON		BLACK SHALE	4.0	127.0	
435.0	MATTOON		SHALE	7.0	131.0	
428.0	MATTOON		SANDSTONE	16.0	138.0	
412.0	MATTOON		SANDY SHALE	6.0	154.0	
406.0	MATTOON		SHALE	11.5	160.0	
394.5	MATTOON		LIMESTONE	1.5	171.5	
393.0	MATTOON		SHALE	17.0	173.0	
376.0	MATTOON		LIMESTONE	1.5	190.0	
374.5	MATTOON		CALCAREOUS SHALE	8.5	191.5	
366.0	MATTOON		SHALE	11.0	200.0	
355.0	MATTOON		CALCAREOUS SANDSTONE	5.5	211.0	
349.5	MATTOON		SHALE	9.5	216.5	
340.0	MATTOON		SANDSTONE	8.0	226.0	
332.0	MATTOON		LIMESTONE	1.5	234.0	
330.5	MATTOON		SANDY SHALE	8.5	235.5	
322.0	MATTOON		SHALE	15.0	244.0	
307.0	MATTOON		SHALE	11.0	259.0	
296.0	MATTOON		SANDY SHALE	10.0	270.0	
286.0	MATTOON		SANDSTONE	123.0	280.0	
163.0	MATTOON		LIMESTONE	5.0	403.0	
158.0	MATTOON		SANDY SHALE	13.5	408.0	
144.5	MATTOON		LIMESTONE	1.0	421.5	
143.5	MATTOON		SANDSTONE	18.5	422.5	
125.0	MATTOON		SANDY SHALE	9.0	441.0	
116.0	MATTOON		SHALE	60.0	450.0	
56.0	MATTOON		LIMESTONE	1.5	510.0	
54.5	MATTOON		SHALE	3.0	511.5	
51.5	MATTOON		LIMESTONE	1.5	514.5	
50.0	MATTOON		SANDSTONE	47.0	516.0	
3.0	MATTOON		CALCAREOUS SANDSTONE	7.0	563.0	

-4.0	MATTOON		SHALY SANDSTONE	30.0	570.0	
-34.0	MATTOON		SANDY SHALE	12.0	600.0	
-46.0	MATTOON		LIMESTONE	0.8	612.0	
-46.8	MATTOON		COAL	1.7	612.8	
-48.5	MATTOON		SHALE	5.5	614.5	
-54.0	BOND	MILLERSVILLE	LIMESTONE	6.0	620.0	
-60.0	BOND	MILLERSVILLE	CALCAREOUS SHALE	13.0	626.0	
-73.0	BOND	MILLERSVILLE	SANDY LIMESTONE	4.0	639.0	
-77.0	BOND		SHALY SANDSTONE	15.0	643.0	
-92.0	BOND		SANDY SHALE	43.0	658.0	
-135.0	BOND		LIMESTONE	2.5	701.0	
-137.5	BOND		SANDY SHALE	34.0	703.5	
-171.5	BOND		COAL	1.5	737.5	
-173.0	BOND		UNDERCLAY	1.0	739.0	
-174.0	BOND		SANDY SHALE	38.0	740.0	
-212.0	BOND	CARTHAGE	LIMESTONE	4.0	778.0	
-216.0	MODESTO	NEW HAVEN	BLACK SHALE	4.0	782.0	WITH COAL
-220.0	MODESTO		SHALE	63.0	786.0	
-283.0	MODESTO		LIMESTONE	1.0	849.0	
-284.0	MODESTO		COAL	2.0	850.0	
-286.0	MODESTO		SANDY SHALE	48.0	852.0	
-334.0	MODESTO		SANDSTONE	22.0	900.0	
-356.0	MODESTO		SHALY SANDSTONE	37.0	922.0	
-393.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	959.0	
-406.0	MODESTO		SANDSTONE	23.0	972.0	
-429.0	MODESTO		LIMESTONE	3.5	995.0	
-432.5	MODESTO		SHALY SANDSTONE	7.5	998.5	
-440.0	MODESTO		SANDY SHALE	119.5	1006.0	
-559.5	CARBONDALE	DANVILLE	COAL	3.5	1125.5	
-563.0	CARBONDALE		SHALE	8.5	1129.0	
-571.5	CARBONDALE	BANKSTON FORK	LIMESTONE	2.5	1137.5	
-574.0	CARBONDALE		CALCAREOUS SHALE	4.0	1140.0	
-578.0	CARBONDALE		SHALE	11.0	1144.0	
-589.0	CARBONDALE	CONANT	LIMESTONE	0.8	1155.0	
-589.8	CARBONDALE	JAMESTOWN	COAL	1.7	1155.8	
-591.5	CARBONDALE		SHALE	2.0	1157.5	
-593.5	CARBONDALE	BRERETON	LIMESTONE	6.9	1159.5	
-600.4	CARBONDALE	ANNA	BLACK SHALE	3.2	1166.4	CORE #1 1164-1177
-603.6	CARBONDALE	HERRIN	COAL	6.2	1169.6	PYRITE 1174.65-1174.7
-609.7	CARBONDALE		UNDERCLAY	0.9	1175.7	
-610.6	CARBONDALE		CORE LOSS	0.4	1176.6	
-611.0	CARBONDALE		SHALE	28.0	1177.0	
-639.0	CARBONDALE	BRIAR HILL	COAL	2.0	1205.0	
-641.0	CARBONDALE		SHALE	5.0	1207.0	
-646.0	CARBONDALE	ST. DAVID	LIMESTONE	5.0	1212.0	
-651.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	1217.0	
-653.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1219.0	
-657.0	CARBONDALE		SHALE	4.0	1223.0	

-661.0	CARBONDALE		LIMESTONE	2.0	1227.0	
-663.0	CARBONDALE		SHALE	66.0	1229.0	
-729.0	CARBONDALE	HANOVER	LIMESTONE	3.2	1295.0	
-732.2	CARBONDALE	EXCELLO	BLACK SHALE	0.8	1298.2	
-733.0	CARBONDALE	HOUCHIN CREEK	COAL	2.5	1299.0	
-735.5	CARBONDALE		SHALE	67.5	1301.5	
-803.0	CARBONDALE	SURVANT - UPPER	COAL	2.0	1369.0	
-805.0	CARBONDALE		SHALE	27.0	1371.0	
-832.0	CARBONDALE	SURVANT - LOWER	COAL	1.0	1398.0	
-833.0	CARBONDALE		SHALE	32.5	1399.0	
-865.5	CARBONDALE	COLCHESTER	COAL	2.0	1431.5	
-867.5	SPOON		SHALE	8.3	1433.5	
-875.8	SPOON	SEELYVILLE	COAL	0.9	1441.8	CORED 1442-1467
-876.7	SPOON		UNDERCLAY	1.9	1442.7	
-878.6	SPOON		SILTY SHALE	12.1	1444.6	WITH SS STREAKS
-890.7	SPOON		CORE LOSS	0.3	1456.7	
-891.0	SPOON		SILTY SHALE	0.9	1457.0	WITH SS STREAKS
-891.9	SPOON		SHALY SANDSTONE	2.6	1457.9	
-894.5	SPOON		SHALE	6.3	1460.5	WITH SS STREAKS
-900.7	SPOON		CORE LOSS	0.3	1466.7	
-901.0	SPOON		SANDY SHALE	15.0	1467.0	

MAPID: 07922852000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 8E SECTION: 36 QUARTERS/FOOTAGES: 1248' N line, 66' W line of NW

QUADRANGLE: WHEELER LONGITUDE: -88.279006 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.006786 DATE COLLECTED: 11 / 16 / 1978

SURFACE ELEVATION (FT.): 565.0 LOGGED (FT.): 1300.0 LOG TYPE: Multiple log types

SOURCE: COASTAL STATES ILJC-78-11 WELL TYPE: Coal Test

COMMENT: GAMMA, DENS, NEUTRON, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
565.0			UNCONSOLIDATED	29.0	0.0	
536.0	MATTOON		MUDSTONE	36.0	29.0	DRILLERS LOG VERY GENERALIZED
500.0	MATTOON		SHALE	9.0	65.0	
491.0	MATTOON	FALMOUTH	BLACK SHALE	3.0	74.0	OFF GAMMA LOG
488.0	MATTOON		GRAY SHALE	27.0	77.0	OFF GAMMA LOG
461.0	MATTOON	WETWETHER	BLACK SHALE	2.0	104.0	OFF GAMMA LOG
459.0	MATTOON		GRAY SHALE	28.0	106.0	OFF GAMMA LOG
431.0	MATTOON		LIMESTONE	2.0	134.0	OFF GAMMA LOG
429.0	MATTOON		GRAY SHALE	18.0	136.0	OFF GAMMA LOG
411.0	MATTOON	BOGOTA	LIMESTONE	2.0	154.0	OFF GAMMA LOG
409.0	MATTOON	INGRAHAM	BLACK SHALE	4.0	156.0	OFF GAMMA LOG
405.0	MATTOON		GRAY SHALE	64.0	160.0	OFF GAMMA LOG
341.0	MATTOON	SHUMWAY	LIMESTONE	4.0	224.0	OFF GAMMA LOG
337.0	MATTOON		GRAY SHALE	6.0	228.0	OFF GAMMA LOG
331.0	MATTOON	TEUTOPOLIS	BLACK SHALE	3.0	234.0	OFF GAMMA LOG
328.0	MATTOON		GRAY SHALE	113.0	237.0	OFF GAMMA LOG
215.0	MATTOON		SHALE & SANDSTONE	10.0	350.0	
205.0	MATTOON		SANDSTONE	10.0	360.0	
195.0	MATTOON		SHALE & SANDSTONE	10.0	370.0	
185.0	MATTOON		GRAY SHALE	20.0	380.0	
165.0	MATTOON		SANDSTONE	20.0	400.0	
145.0	MATTOON		SHALE	10.0	420.0	
135.0	MATTOON		CLAYSTONE & SILTSTONE	10.0	430.0	
125.0	MATTOON		SHALE	50.0	440.0	
75.0	MATTOON		CLAYSTONE & SILTSTONE	20.0	490.0	
55.0	MATTOON		BLACK SHALE	3.0	510.0	OFF GAMMA LOG
52.0	MATTOON		CLAYSTONE & SILTSTONE	12.0	513.0	
40.0	MATTOON		GRAY SHALE	35.0	525.0	
5.0	MATTOON		DARK SHALE & BLACK SHALE	7.0	560.0	
-2.0	MATTOON		COAL	1.0	567.0	
-3.0	MATTOON		DARK SHALE & BLACK SHALE	12.0	568.0	
-15.0	MATTOON		COAL	2.0	580.0	
-17.0	MATTOON		SANDSTONE	8.0	582.0	
-25.0	MATTOON		SHALE	10.0	590.0	
-35.0	MATTOON		GRAY SHALE	48.0	600.0	
-83.0	BOND	MILLERSVILLE	LIMESTONE	5.0	648.0	

-88.0	MODESTO		BLACK SHALE	5.0	653.0	
-93.0	BOND		COAL	2.0	658.0	
-95.0	BOND		GRAY SHALE	70.0	660.0	
-165.0	BOND		SHALE/COAL	40.0	730.0	
-205.0	BOND		SANDSTONE	10.0	770.0	
-215.0	BOND		GRAY SHALE	20.0	780.0	
-235.0	BOND		SAND	26.0	800.0	
-261.0	BOND	CARTHAGE	LIMESTONE	4.0	826.0	OFF GAMMA LOG
-265.0	MODESTO	NEW HAVEN	BLACK SHALE & CLAY	2.0	830.0	
-267.0	MODESTO		GRAY SHALE	8.0	832.0	
-275.0	MODESTO		SAND	20.0	840.0	
-295.0	MODESTO		GRAY SHALE	14.0	860.0	
-309.0	MODESTO		LIMESTONE	3.0	874.0	
-312.0	MODESTO		BLACK SHALE	7.0	877.0	
-319.0	MODESTO	CHAPEL	COAL	1.0	884.0	
-320.0	MODESTO		SHALE	9.0	885.0	
-329.0	MODESTO		LIMESTONE	4.0	894.0	
-333.0	MODESTO		CALCAREOUS SHALE	82.0	898.0	
-415.0	MODESTO	WEST FRANKLIN	LIMESTONE W/ SHALE	20.0	980.0	
-435.0	MODESTO		GRAY SHALE	32.0	1000.0	
-467.0	MODESTO		LIMESTONE	4.0	1032.0	
-471.0	MODESTO		GRAY SHALE	16.0	1036.0	
-487.0	MODESTO		CALCAREOUS SHALE	4.0	1052.0	
-491.0	MODESTO		SHALE	44.0	1056.0	
-535.0	MODESTO		CALCAREOUS SHALE	53.0	1100.0	
-588.0	CARBONDALE	DANVILLE	COAL	3.5	1153.0	
-591.5	CARBONDALE		UNKNOWN	3.5	1156.5	
-595.0	CARBONDALE		SANDSTONE/LIMESTONE	10.0	1160.0	
-605.0	CARBONDALE		SHALE	10.1	1170.0	CORE #1 1170-1190'
-615.1	CARBONDALE	JAMESTOWN	COAL	2.8	1180.1	
-617.8	CARBONDALE	BRERETON	LIMESTONE	4.2	1182.8	OFF GAMMA LOG
-622.0	CARBONDALE	ANNA	BLACK SHALE	2.5	1187.0	
-624.5	CARBONDALE		CORE LOSS	0.5	1189.5	
-625.0	CARBONDALE	HERRIN	COAL	6.0	1190.0	CORE #2 1190-1209'
-631.0	CARBONDALE		SILTSTONE	2.1	1196.0	
-633.1	CARBONDALE		CLAYSTONE & SILTSTONE	7.9	1198.1	
-640.9	CARBONDALE		GRAY SHALE	3.1	1205.9	
-644.0	CARBONDALE		GRAY SHALE	12.0	1209.0	CORE #3 1209-1222
-656.0	CARBONDALE		BLACK SHALE	1.0	1221.0	
-657.0	CARBONDALE		GRAY SHALE	0.5	1222.0	CORE #4 1222-1235.5
-657.5	CARBONDALE	BRIAR HILL	COAL	1.7	1222.5	
-659.2	CARBONDALE		BLACK SHALE	3.5	1224.2	
-662.7	CARBONDALE		GRAY SHALE	0.8	1227.7	
-663.5	CARBONDALE		CALCAREOUS SHALE	4.7	1228.5	
-668.1	CARBONDALE		DARK SHALE & BLACK SHALE	1.0	1233.1	
-669.2	CARBONDALE	SPRINGFIELD	COAL	1.3	1234.2	
-670.5	CARBONDALE	SPRINGFIELD	COAL	3.3	1235.5	CORE #5 1235.5-1249.4

-673.8	CARBONDALE	CLAYSTONE & SILTSTONE	10.6	1238.8
-684.4	CARBONDALE	DARK SHALE & BLACK SHALE	10.6	1249.4
-695.0	CARBONDALE	SHALE & SANDSTONE	40.0	1260.0

MAPID: 07923257000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 3 QUARTERS/FOOTAGES: 1848' N line, 1056' W line
 QUADRANGLE: ROSE HILL LONGITUDE: -88.205328 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.077981 DATE COLLECTED: 7 / 17 / 1980
 SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 1374.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS, RESIST, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0			UNCONSOLIDATED	30.0	0.0	
470.0	MATTOON		GRAY SHALE	27.0	30.0	
443.0	MATTOON		SANDSTONE/LIMESTONE	2.5	57.0	
440.5	MATTOON		SHALE	1.0	59.5	
439.5	MATTOON		LIMESTONE	1.0	60.5	
438.5	MATTOON		GRAY SHALE	2.5	61.5	
436.0	MATTOON		SANDSTONE	36.0	64.0	
400.0	MATTOON		GRAY SHALE	58.0	100.0	
342.0	MATTOON	FALMOUTH	BLACK SHALE	3.0	158.0	UNCERTAIN CORRELATION
339.0	MATTOON		DARK SHALE	7.0	161.0	
332.0	MATTOON		BLACK SHALE	4.0	168.0	
328.0	MATTOON		GRAY SHALE	2.0	172.0	
326.0	MATTOON		GREEN SHALE	6.0	174.0	
320.0	MATTOON		SANDSTONE	3.0	180.0	
317.0	MATTOON		LIMESTONE	0.5	183.0	
316.5	MATTOON		SANDSTONE	6.5	183.5	
310.0	MATTOON		LIMESTONE	1.5	190.0	
308.5	MATTOON		DARK SHALE	7.0	191.5	
301.5	MATTOON		LIMESTONE	1.5	198.5	
300.0	MATTOON		SANDSTONE	4.0	200.0	
296.0	MATTOON		SANDSTONE/SHALE	16.0	204.0	
280.0	MATTOON		GRAY SHALE	20.0	220.0	
260.0	MATTOON		BLACK SHALE	12.0	240.0	
248.0	MATTOON		GRAY SHALE	22.5	252.0	
225.5	MATTOON		LIMESTONE	0.5	274.5	
225.0	MATTOON		SHALE & SANDSTONE	45.0	275.0	
180.0	MATTOON		SANDSTONE	90.0	320.0	
90.0	MATTOON		GRAY SHALE	29.0	410.0	
61.0	MATTOON		BLACK SHALE	2.0	439.0	
59.0	MATTOON		GRAY SHALE	18.0	441.0	
41.0	MATTOON		LIMESTONE	1.3	459.0	
39.7	MATTOON		SANDSTONE	17.7	460.3	
22.0	MATTOON		GRAY SHALE	30.0	478.0	
-8.0	MATTOON		COAL	2.0	508.0	
-10.0	MATTOON		SHALE & SANDSTONE	33.0	510.0	
-43.0	MATTOON		BLACK SHALE	1.0	543.0	
-44.0	BOND	MILLERSVILLE	LIMESTONE	6.5	544.0	
-50.5	BOND		SANDSTONE/SHALE	9.5	550.5	
-60.0	BOND		GRAY SHALE	19.0	560.0	

-79.0	BOND		COAL	1.0	579.0	
-80.0	BOND		UNDERCLAY	4.0	580.0	
-84.0	BOND		GRAY SHALE	40.0	584.0	
-124.0	BOND		COAL	1.0	624.0	
-125.0	BOND		GRAY SHALE	23.0	625.0	
-148.0	BOND		BLACK SHALE & CLAY	0.5	648.0	
-148.5	BOND		UNDERCLAY	2.0	648.5	
-150.5	BOND		GRAY SHALE	5.5	650.5	
-156.0	BOND		SANDSTONE	39.0	656.0	
-195.0	BOND	CARTHAGE	LIMESTONE	2.0	695.0	
-197.0	MODESTO		GRAY SHALE	2.0	697.0	
-199.0	MODESTO	NEW HAVEN	BLACK SHALE	1.0	699.0	
-200.0	MODESTO		UNDERCLAY	4.0	700.0	
-204.0	MODESTO		GRAY SHALE	73.0	704.0	
-277.0	MODESTO	CHAPEL	BLACK SHALE & CLAY	2.5	777.0	
-279.5	MODESTO		UNDERCLAY	3.5	779.5	
-283.0	MODESTO		GRAY SHALE	57.0	783.0	
-340.0	MODESTO		SHALE & SANDSTONE	16.0	840.0	
-356.0	MODESTO		SANDSTONE	22.5	856.0	
-378.5	MODESTO		COAL	1.5	878.5	
-380.0	MODESTO		SHALE & SANDSTONE	18.0	880.0	
-398.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	898.0	OFF E-LOG
-404.0	MODESTO	WEST FRANKLIN	GRAY SHALE	10.0	904.0	OFF E-LOG
-414.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	914.0	OFF E-LOG
-422.0	MODESTO		GRAY SHALE	7.0	922.0	
-429.0	MODESTO		LIMESTONE	2.0	929.0	
-431.0	MODESTO		GRAY SHALE	35.0	931.0	
-466.0	MODESTO		SHALE & SANDSTONE	38.0	966.0	
-504.0	MODESTO		GRAY SHALE	38.0	1004.0	
-542.0	CARBONDALE	DANVILLE	COAL	3.0	1042.0	COMBO OF E-LOG AND DRILLERS LOG
-545.0	CARBONDALE		GRAY SHALE	9.0	1045.0	
-554.0	CARBONDALE	BANKSTON FORK	LIMESTONE	1.0	1054.0	
-555.0	CARBONDALE		GRAY SHALE	7.5	1055.0	
-562.5	CARBONDALE	CONANT	LIMESTONE	2.5	1062.5	
-565.0	CARBONDALE		SHALE	1.3	1065.0	
-566.3	CARBONDALE	JAMESTOWN	COAL	1.7	1066.3	
-568.0	CARBONDALE		SANDY SHALE	3.0	1068.0	
-571.0	CARBONDALE	BRERETON	LIMESTONE	4.0	1071.0	
-575.0	CARBONDALE	BRERETON	LIMESTONE	0.6	1075.0	CORE #1 1075-1084'
-575.6	CARBONDALE	ANNA	BLACK SHALE	1.3	1075.6	
-576.8	CARBONDALE	HERRIN	COAL	3.5	1076.8	
-580.3	CARBONDALE	HERRIN	PYRITE	0.1	1080.3	
-580.3	CARBONDALE	HERRIN	COAL	2.2	1080.3	
-582.5	CARBONDALE		UNDERCLAY	0.4	1082.5	
-583.0	CARBONDALE		CORE LOSS	1.1	1083.0	
-584.0	CARBONDALE		SHALE	21.0	1084.0	
-605.0	CARBONDALE	BRIAR HILL	COAL	1.0	1105.0	
-606.0	CARBONDALE		GRAY SHALE	4.7	1106.0	

-610.7	CARBONDALE		LIMESTONE	0.2	1110.7	
-610.9	CARBONDALE		SHALE	0.6	1110.9	
-611.5	CARBONDALE	SPRINGFIELD	COAL	4.0	1111.5	
-615.5	CARBONDALE		GRAY SHALE	71.0	1115.5	
-686.5	CARBONDALE	EXCELLO	BLACK SHALE & CLAY	3.5	1186.5	
-690.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	1190.0	
-692.0	CARBONDALE		GRAY SHALE	63.0	1192.0	
-755.0	CARBONDALE		BLACK SHALE	2.0	1255.0	
-757.0	CARBONDALE	SURVANT	COAL	1.0	1257.0	
-758.0	CARBONDALE		GRAY SHALE	21.4	1258.0	
-779.4	CARBONDALE		COAL	1.0	1279.4	
-780.4	CARBONDALE		GRAY SHALE	25.1	1280.4	
-805.5	CARBONDALE	MECCA QUARRY	BLACK SHALE & CLAY	2.0	1305.5	
-807.5	SPOON		UNDERCLAY	2.5	1307.5	
-810.0	SPOON		GRAY SHALE	5.0	1310.0	
-815.0	SPOON	PALZO	SANDSTONE	2.0	1315.0	CORE #2 1315-1330
-817.0	SPOON	PALZO	SANDSTONE/SHALE	1.7	1317.0	
-818.7	SPOON	PALZO	SANDSTONE	11.1	1318.7	
-829.8	SPOON	PALZO	CORE LOSS	0.2	1329.8	
-830.0	SPOON	PALZO	SANDSTONE	9.3	1330.0	CORE #3 1330-1345
-839.3	SPOON	PALZO	SANDSTONE/COAL	0.3	1339.3	
-839.6	SPOON	SEELYVILLE	COAL	2.1	1339.6	
-841.7	SPOON	SEELYVILLE	SHALE/UNDERCLAY	1.7	1341.7	
-843.4	SPOON	SEELYVILLE	COAL	1.5	1343.4	
-844.9	SPOON	SEELYVILLE	CORE LOSS	0.1	1344.9	
-845.0	SPOON	SEELYVILLE	COAL	1.3	1345.0	CORE #4 1345-1349.5
-846.3	SPOON		CORE LOSS	3.2	1346.3	
-849.5			GRAY SHALE	24.5	1349.5	

MAPID: 07901172000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 5 QUARTERS/FOOTAGES: 330' N line, 660' W line of NE NW
QUADRANGLE: ROSE HILL LONGITUDE: -88.239652 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.082109 DATE COLLECTED:
SURFACE ELEVATION (FT.): 575.0 LOGGED (FT.): 1389.0 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	BOND	CARTHAGE	LIMESTONE	5.0	767.0
-365.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	940.0
-519.0	CARBONDALE	DANVILLE	COAL	2.5	1094.0
-554.0	CARBONDALE	HERRIN	COAL	3.5	1129.0
-589.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1164.0
-655.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1230.0
-772.0	CARBONDALE	COLCHESTER	COAL	-	1347.0
-809.0	SPOON	SEELYVILLE	COAL	5.0	1384.0

MAPID: 07900973000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 6 QUARTERS/FOOTAGES: NE NE SE
QUADRANGLE: ROSE HILL LONGITUDE: -88.247835 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.074472 DATE COLLECTED:
SURFACE ELEVATION (FT.): 570.0 LOGGED (FT.): 1480.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-263.0	BOND	CARTHAGE	LIMESTONE	5.0	833.0
-443.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	1013.0
-601.0	CARBONDALE	DANVILLE	COAL	3.0	1171.0
-636.0	CARBONDALE	HERRIN	COAL	3.5	1206.0
-674.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1244.0
-743.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1313.0
-872.0	CARBONDALE	COLCHESTER	COAL	-	1442.0
-905.0	SPOON	SEELYVILLE	COAL	5.0	1475.0

MAPID: 07900498000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 7N 9E

SECTION: 9

QUARTERS/FOOTAGES: NW SW NW

QUADRANGLE: ROSE HILL

LONGITUDE: -88.22651

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.063029

DATE COLLECTED:

SURFACE ELEVATION (FT.): 566.0

LOGGED (FT.): 1453.0

LOG TYPE: Electric Log

SOURCE:

WELL TYPE: Oil and Gas Test

COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-256.0	BOND	CARTHAGE	LIMESTONE	4.0	822.0	
-580.0	CARBONDALE	DANVILLE	COAL	2.0	1146.0	
-614.0	CARBONDALE	HERRIN	COAL	4.0	1180.0	
-646.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1212.0	
-738.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1304.0	
-870.0	CARBONDALE	COLCHESTER	COAL	-	1436.0	
-881.0	SPOON	SEELYVILLE	COAL	6.0	1447.0	

MAPID: 07922767000C VERSION: 1

PROJECT: NCRDS92

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 9 QUARTERS/FOOTAGES: 2570' S line, 1635' W line
 QUADRANGLE: ROSE HILL LONGITUDE: -88.221863 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.060096 DATE COLLECTED: 9 / 29 / 1978
 SURFACE ELEVATION (FT.): 550.0 LOGGED (FT.): 1240.0 LOG TYPE: Drillers Log
 SOURCE: MOBIL OIL CO. IG-78-4C WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
550.0			CLAY	19.0	0.0	
531.0			SANDY CLAY	38.0	19.0	
493.0	MATTOON		DARK GRAY SHALE	73.0	57.0	
420.0	MATTOON		SANDSTONE	1.5	130.0	
418.5	MATTOON		SANDY SHALE	19.5	131.5	
399.0	MATTOON		BLACK SHALE	5.0	151.0	
394.0	MATTOON		COAL	2.0	156.0	
392.0	MATTOON		GRAY SHALE	16.0	158.0	
376.0	MATTOON		BLACK SHALE	5.0	174.0	
371.0	MATTOON		GRAY SHALE	7.0	179.0	
364.0	MATTOON		LIMESTONE	2.8	186.0	
361.2	MATTOON		GRAY SHALE	47.2	188.8	
314.0	MATTOON		LIMESTONE	1.5	236.0	
312.5	MATTOON		GRAY SHALE	62.5	237.5	GY SH W/ SDY STREAKS
250.0	MATTOON		GRAY SHALE	100.0	300.0	
150.0	MATTOON		SANDSTONE	85.0	400.0	
65.0	MATTOON		GRAY SHALE	35.0	485.0	
30.0	MATTOON		GRAY SHALE	50.0	520.0	GY SH W/ LS STREAKS
-20.0	MATTOON		SANDSTONE	60.0	570.0	SHALEY SS
-80.0	MATTOON		SANDY SHALE	10.0	630.0	
-90.0	BOND	MILLERSVILLE	LIMESTONE	3.8	640.0	
-93.8	BOND		CALCAREOUS SHALE	4.2	643.8	
-98.0	BOND		SANDY SHALE	4.0	648.0	
-102.0	BOND		CALCAREOUS SHALE	33.0	652.0	
-135.0	BOND		GRAY SHALE	25.0	685.0	
-160.0	BOND		DARK GRAY SHALE	7.0	710.0	
-167.0	BOND		BLACK SHALE	3.0	717.0	BK SH & CO
-170.0	BOND		CALCAREOUS SHALE	80.0	720.0	
-250.0	BOND		GRAY SHALE	0.5	800.0	
-250.5	BOND	CARTHAGE	LIMESTONE	4.5	800.5	
-255.0	MODESTO		GRAY SHALE	3.0	805.0	
-258.0	MODESTO		BLACK SHALE	1.0	808.0	
-259.0	MODESTO		GRAY SHALE	53.0	809.0	
-312.0	MODESTO		BLACK SHALE	4.0	862.0	BK SH & CO
-316.0	MODESTO		SANDY SHALE	24.0	866.0	
-340.0	MODESTO		SANDSTONE	60.0	890.0	
-400.0	MODESTO		SANDY SHALE	20.0	950.0	
-420.0	MODESTO		GRAY SHALE	18.0	970.0	
-438.0	MODESTO		SANDY SHALE	22.0	988.0	

-460.0	MODESTO		GRAY SHALE	50.0	1010.0	GY SH W/ DOLOMITE
-510.0	MODESTO		GRAY SHALE	87.0	1060.0	
-597.0	CARBONDALE	DANVILLE	COAL	2.8	1147.0	
-599.8	CARBONDALE		CALCAREOUS SHALE	7.2	1149.8	
-607.0	CARBONDALE		LIMESTONE	2.2	1157.0	
-609.2	CARBONDALE		GRAY SHALE	6.4	1159.2	
-615.6	CARBONDALE		LIMESTONE	3.4	1165.6	
-619.0	CARBONDALE	JAMESTOWN	COAL	2.5	1169.0	
-621.5	CARBONDALE		GRAY SHALE	10.0	1171.5	
-631.5	CARBONDALE		BLACK SHALE	1.5	1181.5	
-633.0	CARBONDALE	HERRIN	COAL	5.0	1183.0	
-638.0	CARBONDALE		CALCAREOUS SHALE	3.0	1188.0	
-641.0	CARBONDALE		LIMESTONE	1.0	1191.0	
-642.0	CARBONDALE		CALCAREOUS SHALE	16.0	1192.0	
-658.0	CARBONDALE		BLACK SHALE	2.0	1208.0	BK SH & CO
-660.0	CARBONDALE	BRIAR HILL	COAL	2.0	1210.0	
-662.0	CARBONDALE		DARK GRAY SHALE	1.0	1212.0	
-663.0	CARBONDALE		LIMESTONE	3.6	1213.0	
-666.6	CARBONDALE		BLACK SHALE	0.4	1216.6	
-667.0	CARBONDALE	ST. DAVID	LIMESTONE	2.0	1217.0	
-669.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1219.0	
-672.0	CARBONDALE		GRAY SHALE	18.0	1222.0	

MAPID: 07923130000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 11 QUARTERS/FOOTAGES: 2130' N line, 2260' E line
 QUADRANGLE: ROSE HILL LONGITUDE: -88.179075 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.061753 DATE COLLECTED: 10 / 5 / 1979
 SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 1132.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. WELL TYPE: Coal Test
 COMMENT: GAMMA, DENSITY, RESIST. AND DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0	MATTOON		SANDSTONE	21.0	0.0	
479.0	MATTOON		SANDSTONE	7.0	21.0	
472.0	MATTOON		GRAY SHALE	19.0	28.0	
453.0	MATTOON		SANDSTONE	84.0	47.0	
369.0	MATTOON		LIMESTONE	4.0	131.0	
365.0	MATTOON		SANDSTONE	15.0	135.0	
350.0	MATTOON		GRAY SHALE	9.0	150.0	
341.0	MATTOON	SHUMWAY	LIMESTONE	1.0	159.0	
340.0	MATTOON	TEUTOPOLIS	BLACK SHALE	4.0	160.0	OFF GAMMA LOG
336.0	MATTOON		GRAY SHALE	5.0	164.0	
331.0	MATTOON		LIMESTONE	1.5	169.0	
329.5	MATTOON		DARK SHALE & BLACK SHALE	7.5	170.5	
322.0	MATTOON		GRAY SHALE	7.5	178.0	
314.5	MATTOON		LIMESTONE	4.5	185.5	
310.0	MATTOON		GRAY SHALE	80.0	190.0	
230.0	MATTOON		SANDSTONE	62.0	270.0	
168.0	MATTOON		LIMESTONE	4.0	332.0	
164.0	MATTOON		SANDSTONE	22.0	336.0	
142.0	MATTOON		GRAY SHALE	89.0	358.0	
53.0	MATTOON		COAL	1.0	447.0	
52.0	MATTOON		GRAY SHALE	5.0	448.0	
47.0	MATTOON		LIMESTONE	1.5	453.0	
45.5	MATTOON		SANDSTONE	4.5	454.5	
41.0	MATTOON		GRAY SHALE	5.0	459.0	
36.0	MATTOON		LIMESTONE	2.0	464.0	
34.0	MATTOON		GRAY SHALE	7.0	466.0	
27.0	MATTOON		LIMESTONE	1.0	473.0	
26.0	MATTOON		GRAY SHALE	13.0	474.0	
13.0	MATTOON		BLACK SHALE & LIMESTONE	11.0	487.0	
2.0	MATTOON		GRAY SHALE	9.0	498.0	
-7.0	MATTOON		COAL	2.0	507.0	
-9.0	MATTOON		GRAY SHALE	4.0	509.0	
-13.0	MATTOON		SANDSTONE	26.0	513.0	
-39.0	MATTOON		SANDSTONE/SHALE	10.0	539.0	
-49.0	BOND	MILLERSVILLE	LIMESTONE	6.5	549.0	AVE. THICKNESS B/LOGS
-55.5	BOND		SANDSTONE	2.5	555.5	
-58.0	BOND		GRAY SHALE	24.0	558.0	

-82.0	BOND		SHALE & SANDSTONE	24.0	582.0	
-106.0	BOND		GRAY SHALE	24.0	606.0	
-130.0	BOND		COAL	2.5	630.0	
-132.5	BOND		GRAY SHALE	27.5	632.5	
-160.0	BOND		DARK SHALE	10.0	660.0	
-170.0	BOND		COAL	2.0	670.0	
-172.0	BOND		GRAY SHALE	2.0	672.0	
-174.0	BOND		SANDSTONE/LIMESTONE	6.0	674.0	
-180.0	BOND		SANDSTONE	37.0	680.0	
-217.0	BOND	CARTHAGE	LIMESTONE	2.0	717.0	
-219.0	MODESTO		SANDSTONE	1.0	719.0	
-220.0	MODESTO		BLACK SHALE	0.5	720.0	
-220.5	MODESTO	NEW HAVEN	COAL	1.5	720.5	
-222.0	MODESTO		SANDSTONE	22.0	722.0	
-244.0	MODESTO		SANDSTONE/SHALE	6.0	744.0	
-250.0	MODESTO		GRAY SHALE	25.0	750.0	
-275.0	MODESTO	CHAPEL	COAL	2.5	775.0	
-277.5	MODESTO		GRAY SHALE	17.5	777.5	
-295.0	MODESTO		SANDSTONE/SHALE	14.0	795.0	
-309.0	MODESTO		SANDSTONE	89.0	809.0	
-398.0	MODESTO		LIMESTONE	1.0	898.0	
-399.0	MODESTO		GRAY SHALE	15.0	899.0	
-414.0	MODESTO		LIMESTONE	10.0	914.0	
-424.0	MODESTO		GRAY SHALE	116.0	924.0	
-540.0	CARBONDALE	DANVILLE	COAL	3.0	1040.0	
-543.0	CARBONDALE		GRAY SHALE	8.0	1043.0	
-551.0	CARBONDALE		LIMESTONE W/ SHALE	5.0	1051.0	
-556.0	CARBONDALE		GRAY SHALE	10.5	1056.0	OFF RESIST AND DENSITY LOG
-566.5	CARBONDALE	CONANT	LIMESTONE	0.5	1066.5	OFF RESIST AND DENSITY LOG
-567.0	CARBONDALE	JAMESTOWN	COAL	2.8	1067.0	
-569.8	CARBONDALE		GRAY SHALE	3.2	1069.8	
-573.0	CARBONDALE	BRERETON	LIMESTONE	5.0	1073.0	
-578.0	CARBONDALE	ANNA	BLACK SHALE	1.8	1078.0	
-579.8	CARBONDALE	HERRIN	COAL	6.2	1079.8	
-586.0	CARBONDALE		GRAY SHALE	19.5	1086.0	
-605.5	CARBONDALE	BRIAR HILL	COAL	1.5	1105.5	
-607.0	CARBONDALE		GRAY SHALE	3.2	1107.0	
-610.2	CARBONDALE	ST. DAVID	LIMESTONE	4.3	1110.2	
-614.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	1114.5	
-615.0	CARBONDALE	SPRINGFIELD	COAL	3.8	1115.0	
-618.8	CARBONDALE		UNDERCLAY	2.2	1118.8	
-621.0	CARBONDALE		GRAY SHALE	11.0	1121.0	

MAPID: 07922853000C

VERSION: 1

PROJECT: CONF

COUNTY: JASPER

TWP/RNG: 7N 9E

SECTION: 12

QUARTERS/FOOTAGES: 1293' N line, 1917' W line

QUADRANGLE: ROSE HILL

LONGITUDE: -88.164366

GEOLOGIST: LOG BOOK

CONFIDENTIAL: N

LATITUDE: 39.06428

DATE COLLECTED: 11 / 30 / 1978

SURFACE ELEVATION (FT.): 560.7

LOGGED (FT.): 1185.0

LOG TYPE: Electric Log

SOURCE: COASTAL STATES ENERGY

ILJC 78-6

WELL TYPE: Coal Test

COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-492.3	SHELBURN	DANVILLE	COAL	2.9	1053.0	
-516.2	SHELBURN	JAMESTOWN	COAL	2.7	1076.9	
-529.2	CARBONDALE	HERRIN	COAL	5.7	1089.9	
-553.6	CARBONDALE	BRIAR HILL	COAL	1.4	1114.3	
-564.6	CARBONDALE	SPRINGFIELD	COAL	2.5	1125.3	

MAPID: 07922853000C VERSION: 2

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 12 QUARTERS/FOOTAGES: 1293' N line, 1917' W line
 QUADRANGLE: ROSE HILL LONGITUDE: -88.164366 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.06428 DATE COLLECTED: 11 / 29 / 1978
 SURFACE ELEVATION (FT.): 561.0 LOGGED (FT.): 1185.0 LOG TYPE: Multiple log types
 SOURCE: COASTAL STATES ILJC-78-6 WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS, NEUTRON, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
561.0			UNCONSOLIDATED	20.0	0.0	
541.0			CLAYSTONE & SILTSTONE	38.0	20.0	
503.0	MATTOON	FALMOUTH	BLACK SHALE	1.0	58.0	
502.0	MATTOON		GRAY SHALE	36.0	59.0	OFF GAMMA LOG
466.0	MATTOON	TROWBRIDGE	COAL	2.0	95.0	OFF GAMMA LOG
464.0	MATTOON		GRAY SHALE	15.0	97.0	
449.0	MATTOON	INGRAHAM	BLACK SHALE	8.0	112.0	
441.0	MATTOON		SHALE & CLAYSTONE	30.0	120.0	
411.0	MATTOON		SANDY SHALE	42.0	150.0	
369.0	MATTOON	TEUTOPOLIS	BLACK SHALE	3.0	192.0	OFF GAMMA LOG
366.0	MATTOON		SANDY SHALE	15.0	195.0	
351.0	MATTOON		SHALE	120.0	210.0	
231.0	MATTOON		SHALE & SANDSTONE	40.0	330.0	
191.0	MATTOON		SANDSTONE	30.0	370.0	
161.0	MATTOON		SILTY SHALE	20.0	400.0	
141.0	MATTOON		SANDSTONE/SILTSTONE	20.0	420.0	
121.0	MATTOON		SANDSTONE	10.0	440.0	
111.0	MATTOON		SANDSTONE/SILTSTONE	6.0	450.0	
105.0	MATTOON		BLACK SHALE	2.0	456.0	OFF GAMMA LOG
103.0	MATTOON		SILTY SHALE	22.0	458.0	
81.0	MATTOON		SHALE & SANDSTONE	20.0	480.0	
61.0	MATTOON		GRAY SHALE	10.0	500.0	
51.0	MATTOON		SILTSTONE	20.0	510.0	
31.0	MATTOON		GRAY SHALE	20.0	530.0	
11.0	MATTOON		SILTSTONE	20.0	550.0	
-9.0	BOND	MILLERSVILLE	LIMESTONE	7.0	570.0	
-16.0	BOND		GRAY SHALE	3.0	577.0	
-19.0	BOND		SILTSTONE	20.0	580.0	
-39.0	BOND		SHALE	6.0	600.0	
-45.0	BOND		COAL	1.0	606.0	OFF GAMMA LOG
-46.0	BOND		SHALE	49.5	607.0	
-95.5	BOND		DARK SHALE	2.5	656.5	
-98.0	BOND		SHALE	11.0	659.0	
-109.0	BOND		SILTSTONE	17.0	670.0	
-126.0	BOND		COAL	2.0	687.0	OFF GAMMA LOG
-128.0	BOND		SHALE & SILTSTONE	6.0	689.0	
-134.0	BOND		SANDSTONE/SHALE	25.0	695.0	
-159.0	BOND		SANDSTONE	10.0	720.0	
-169.0	BOND		SILTSTONE/SANDSTONE	12.0	730.0	

-181.0	BOND	CARTHAGE	LIMESTONE	2.0	742.0	
-183.0	MODESTO	NEW HAVEN	BLACK SHALE	3.0	744.0	
-186.0	MODESTO		SILTSTONE & SHALE	3.0	747.0	
-189.0	MODESTO		GRAY SHALE	40.0	750.0	
-229.0	MODESTO	CHAPEL	BLACK SHALE	3.5	790.0	
-232.5	MODESTO		SHALE	16.5	793.5	
-249.0	MODESTO	TRIVOLI	SANDSTONE	20.0	810.0	UNCERTAIN CORRELATION
-269.0	MODESTO		SANDSTONE/SILTSTONE	10.0	830.0	
-279.0	MODESTO		SANDSTONE/SHALE	10.0	840.0	
-289.0	MODESTO		SANDSTONE	10.0	850.0	
-299.0	MODESTO		DARK SHALE & BLACK SHALE	10.0	860.0	
-309.0	MODESTO		SHALE & SANDSTONE	10.0	870.0	
-319.0	MODESTO		SANDSTONE	16.0	880.0	
-335.0	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	896.0	OFF GAMMA LOG
-337.0	MODESTO	WEST FRANKLIN	SHALE	2.0	898.0	
-339.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	900.0	
-342.0	MODESTO	WEST FRANKLIN	SHALE	2.0	903.0	
-344.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	905.0	
-349.0	MODESTO		GRAY SHALE	65.0	910.0	
-414.0	MODESTO		SILTSTONE	15.0	975.0	
-429.0	MODESTO		GRAY SHALE	20.0	990.0	
-449.0	MODESTO		CALCAREOUS SHALE	42.5	1010.0	
-491.5	CARBONDALE	DANVILLE	COAL	3.5	1052.5	
-495.0	CARBONDALE		SHALE	5.0	1056.0	
-500.0	CARBONDALE		SANDSTONE	5.0	1061.0	
-505.0	CARBONDALE		GRAY SHALE	7.0	1066.0	
-512.0	CARBONDALE		GRAY SHALE	1.8	1073.0	
-513.8	CARBONDALE	CONANT	LIMESTONE	1.7	1074.8	CORE #1 1073-1087'
-515.5	CARBONDALE		BLACK SHALE	0.3	1076.5	
-515.9	CARBONDALE	JAMESTOWN	COAL	2.7	1076.9	
-518.5	CARBONDALE		CLAYSTONE & SILTSTONE	1.0	1079.5	
-519.5	CARBONDALE		BLACK SHALE	3.2	1080.5	
-522.7	CARBONDALE	BRERETON	LIMESTONE	3.3	1083.7	
-526.0	CARBONDALE	BRERETON	LIMESTONE	2.2	1087.0	CORE #2 1087-1103.6'
-528.2	CARBONDALE	ANNA	DARK SHALE & BLACK SHALE	0.6	1089.2	
-528.8	CARBONDALE	ANNA	CARBONACEOUS SHALE	0.1	1089.8	
-528.9	CARBONDALE	HERRIN	COAL	5.7	1089.9	
-534.6	CARBONDALE		GRAY SHALE	8.0	1095.6	
-542.6	CARBONDALE		GRAY SHALE	10.7	1103.6	CORE #3 1103.6-1120
-553.3	CARBONDALE	BRIAR HILL	COAL	1.4	1114.3	
-554.7	CARBONDALE		CLAYSTONE & SILTSTONE	2.0	1115.7	
-556.8	CARBONDALE	ST. DAVID	LIMESTONE	2.3	1117.8	
-559.0	CARBONDALE	ST. DAVID	LIMESTONE	3.7	1120.0	CORE #4 1120-
-562.7	CARBONDALE	TURNER MINE	BLACK SHALE	1.6	1123.7	
-564.3	CARBONDALE	SPRINGFIELD	COAL	2.5	1125.3	
-566.8	CARBONDALE		CLAYSTONE & SILTSTONE	4.3	1127.8	

-571.0	CARBONDALE	SANDSTONE	28.0	1132.0
-599.0	CARBONDALE	SILTSTONE	25.0	1160.0

MAPID: 07922783000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 13 QUARTERS/FOOTAGES: 66' S line, 600' W line
 QUADRANGLE: ROSE HILL LONGITUDE: -88.168806 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.038712 DATE COLLECTED: 11 / 22 / 1978
 SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 1200.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. WELL TYPE: Coal Test
 COMMENT: GAMMA, DENSITY, RESIST. AND DRILLERS LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
540.0			UNCONSOLIDATED	70.0	0.0	
470.0	MATTOON	FALMOUTH	DARK SHALE	3.0	70.0	
467.0	MATTOON		SANDSTONE	1.0	73.0	
466.0	MATTOON		GRAY SHALE	6.0	74.0	
460.0	MATTOON		SANDSTONE	16.0	80.0	
444.0	MATTOON		GRAY SHALE	27.0	96.0	
417.0	MATTOON		SANDSTONE	1.0	123.0	
416.0	MATTOON		GRAY SHALE	2.0	124.0	
414.0	MATTOON		SANDSTONE	1.0	126.0	
413.0	MATTOON		GRAY SHALE	5.0	127.0	
408.0	MATTOON	INGRAHAM	BLACK SHALE	4.0	132.0	
404.0	MATTOON		GRAY SHALE	45.0	136.0	
359.0	MATTOON		SANDSTONE	2.0	181.0	
357.0	MATTOON		GRAY SHALE	18.0	183.0	
339.0	MATTOON		SANDSTONE	17.0	201.0	TEUTOPOLIS SH. INTERVAL
322.0	MATTOON		GRAY SHALE	102.0	218.0	
220.0	MATTOON		SHALE & SANDSTONE	145.0	320.0	
75.0	MATTOON		GRAY SHALE	45.0	465.0	
30.0	MATTOON		LIMESTONE	14.0	510.0	
16.0	MATTOON		GRAY SHALE	24.0	524.0	
-8.0	MATTOON		COAL	2.0	548.0	
-10.0	MATTOON		GRAY SHALE	4.0	550.0	
-14.0	MATTOON		LIMESTONE	7.5	554.0	
-21.5	MATTOON		GRAY SHALE	45.5	561.5	
-67.0	BOND	MILLERSVILLE	LIMESTONE	9.5	607.0	
-76.5	BOND		GRAY SHALE	4.5	616.5	
-81.0	BOND		LIMESTONE	1.0	621.0	
-82.0	BOND		GRAY SHALE	20.0	622.0	
-102.0	BOND		COAL	2.0	642.0	
-104.0	BOND		GRAY SHALE	91.0	644.0	
-195.0	BOND		SANDSTONE	6.0	735.0	
-201.0	BOND		GRAY SHALE	3.5	741.0	
-204.5	BOND		LIMESTONE	1.5	744.5	
-206.0	BOND		SHALE & SANDSTONE	37.0	746.0	
-243.0	BOND	CARTHAGE	LIMESTONE	4.0	783.0	
-247.0	MODESTO	NEW HAVEN	BLACK SHALE & CLAY	4.0	787.0	
-251.0	MODESTO		GRAY SHALE	36.0	791.0	
-287.0	MODESTO	CHAPEL	BLACK SHALE & CLAY	4.7	827.0	OFF GAMMA LOG W.FR. ABSENT
-291.7	MODESTO		GRAY SHALE	151.3	831.7	

-443.0	MODESTO		BLACK SHALE	3.0	983.0	OFF GAMMA
-446.0	MODESTO		GRAY SHALE	116.0	986.0	
-562.0	CARBONDALE	DANVILLE	COAL	3.5	1102.0	
-565.5	CARBONDALE		GRAY SHALE	5.0	1105.5	
-570.5	CARBONDALE		LIMESTONE	8.5	1110.5	
-579.0	CARBONDALE		GRAY SHALE	15.0	1119.0	
-594.0	CARBONDALE	CONANT	LIMESTONE	1.0	1134.0	
-595.0	CARBONDALE	JAMESTOWN	COAL	3.5	1135.0	
-598.5	CARBONDALE		GRAY SHALE	4.0	1138.5	
-602.5	CARBONDALE	BRERETON	LIMESTONE	5.2	1142.5	
-607.7	CARBONDALE	ANNA	GRAY SHALE	0.3	1147.7	
-608.0	CARBONDALE	HERRIN	COAL	6.0	1148.0	
-614.0	CARBONDALE		GRAY SHALE	17.5	1154.0	
-631.5	CARBONDALE	BRIAR HILL	COAL	1.5	1171.5	
-633.0	CARBONDALE		GRAY SHALE	4.0	1173.0	
-637.0	CARBONDALE	ST. DAVID	LIMESTONE	3.5	1177.0	
-640.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	1180.5	
-641.5	CARBONDALE	SPRINGFIELD	COAL	4.0	1181.5	
-645.5	CARBONDALE		GRAY SHALE	3.5	1185.5	
-649.0	CARBONDALE		LIMESTONE	1.0	1189.0	
-650.0	CARBONDALE		GRAY SHALE	10.0	1190.0	

MAPID: 07922858000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 14 QUARTERS/FOOTAGES: 1941' S line, 60' W line
 QUADRANGLE: ROSE HILL LONGITUDE: -88.189683 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.043686 DATE COLLECTED: 11 / 19 / 1978
 SURFACE ELEVATION (FT.): 556.0 LOGGED (FT.): 1300.0 LOG TYPE: Multiple log types
 SOURCE: COASTAL STATES ILJC-78-17 WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS, NEUTRON, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
556.0	MATTOON		CLAYSTONE & SILTSTONE	20.0	0.0	DRILLERS LOG VERY GENERALIZED
536.0	MATTOON		MUDSTONE	10.0	20.0	
526.0	MATTOON		GRAY SHALE	10.0	30.0	
516.0	MATTOON		SILTSTONE	40.0	40.0	
476.0	MATTOON		GRAY SHALE	20.0	80.0	
456.0	MATTOON		DARK SHALE	4.0	100.0	
452.0	MATTOON	FALMOUTH	BLACK SHALE	3.0	104.0	OFF GAMMA LOG
449.0	MATTOON		DARK SHALE	3.0	107.0	
446.0	MATTOON		SILTSTONE	30.0	110.0	
416.0	MATTOON	WETWETHER	BLACK SHALE	2.0	140.0	OFF GAMMA LOG
414.0	MATTOON		GRAY SHALE	4.0	142.0	OFF GAMMA LOG
410.0	MATTOON	TROWBRIDGE	COAL	2.0	146.0	OGG GAMMA LOG
408.0	MATTOON		SILTSTONE	12.0	148.0	
396.0	MATTOON		DARK SHALE	6.0	160.0	
390.0	MATTOON	INGRAHAM	BLACK SHALE	5.0	166.0	OFF GAMMA LOG
385.0	MATTOON		DARK SHALE	9.0	171.0	
376.0	MATTOON		CALCAREOUS SHALE	20.0	180.0	
356.0	MATTOON		GRAY SHALE	52.0	200.0	
304.0	MATTOON	TEUTOPOLIS	BLACK SHALE	3.0	252.0	OFF GAMMA LOG
301.0	MATTOON		DARK SHALE	5.0	255.0	
296.0	MATTOON		SANDY SHALE	20.0	260.0	
276.0	MATTOON		SANDSTONE/LIMESTONE	10.0	280.0	
266.0	MATTOON		SANDSTONE	50.0	290.0	
216.0	MATTOON		SILTSTONE	10.0	340.0	
206.0	MATTOON		SANDSTONE	60.0	350.0	
146.0	MATTOON		SILTSTONE	10.0	410.0	
136.0	MATTOON		SANDSTONE	5.0	420.0	
131.0	MATTOON		BLACK SHALE	5.0	425.0	
126.0	MATTOON		SILTSTONE	10.0	430.0	
116.0	MATTOON		SANDSTONE	20.0	440.0	
96.0	MATTOON		SILTSTONE	74.0	460.0	
22.0	MODESTO	NEW HAVEN	BLACK SHALE	2.0	534.0	OFF GAMMA LOG
20.0	MATTOON		SILTSTONE	4.0	536.0	
16.0	MATTOON		GRAY SHALE	20.0	540.0	
-4.0	MATTOON		SILTSTONE	20.0	560.0	
-24.0	MATTOON		GRAY SHALE	10.0	580.0	
-34.0	MATTOON		SILTSTONE	50.0	590.0	
-84.0	MATTOON		GRAY SHALE	19.0	640.0	

-103.0	MATTOON		COAL	1.0	659.0	OFF GAMMA LOG
-104.0	MATTOON		GRAY SHALE	9.0	660.0	
-113.0	BOND	MILLERSVILLE	LIMESTONE	5.0	669.0	
-118.0	BOND		GRAY SHALE	11.0	674.0	
-129.0	BOND		COAL	2.0	685.0	OFF GAMMA LOG
-131.0	BOND		GRAY SHALE	55.0	687.0	
-186.0	BOND		BLACK SHALE	4.0	742.0	BKSH
-190.0	BOND		DARK SHALE & BLACK SHALE	14.0	746.0	
-204.0	BOND		SANDY SHALE	24.3	760.0	
-228.3	BOND		COAL	0.8	784.3	
-229.0	BOND		SANDY SHALE	25.0	785.0	
-254.0	BOND		SILTSTONE	33.0	810.0	
-287.0	BOND	CARTHAGE	LIMESTONE	4.0	843.0	OFF GAMMA LOG
-291.0	MODESTO		GRAY SHALE	32.0	847.0	
-323.0	MODESTO	CHAPEL	BLACK SHALE	3.0	879.0	
-326.0	MODESTO		DARK SHALE	8.0	882.0	
-334.0	MODESTO		SILTSTONE	30.0	890.0	
-364.0	MODESTO		SANDSTONE	10.0	920.0	
-374.0	MODESTO		GRAY SHALE	65.0	930.0	
-439.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	995.0	OFF GAMMA LOG
-444.0	MODESTO	WEST FRANKLIN	SHALE	2.0	1000.0	
-446.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	1002.0	
-452.0	MODESTO		BLACK SHALE & CLAY	12.0	1008.0	
-464.0	MODESTO		SANDSTONE	10.0	1020.0	
-474.0	MODESTO		SILTSTONE	20.0	1030.0	
-494.0	MODESTO		GRAY SHALE	20.0	1050.0	
-514.0	MODESTO		SILTSTONE	10.0	1070.0	
-524.0	MODESTO		GRAY SHALE	81.5	1080.0	
-605.5	CARBONDALE	DANVILLE	COAL	3.0	1161.5	OFF GAMMA LOG
-608.5	CARBONDALE		DARK SHALE	5.5	1164.5	
-614.0	CARBONDALE		SILTSTONE	10.0	1170.0	BANKSTON FK. LS INTERVAL 1171-1174
-624.0	CARBONDALE		SHALE	6.0	1180.0	
-630.0	CARBONDALE	CONANT	LIMESTONE	2.0	1186.0	OFF GAMMA LOG
-632.0	CARBONDALE	JAMESTOWN	COAL	2.0	1188.0	
-634.0	CARBONDALE		CARBONACEOUS SILTSTONE	0.3	1190.0	CORE #1 1190-1200
-634.3	CARBONDALE	BRERETON	LIMESTONE	3.5	1190.3	
-637.7	CARBONDALE	ANNA	CARBONACEOUS SHALE	2.7	1193.7	
-640.4	CARBONDALE		SHALE	0.7	1196.4	
-641.1	CARBONDALE	HERRIN	COAL	2.9	1197.1	
-644.0	CARBONDALE	HERRIN	COAL	2.8	1200.0	
-646.8	CARBONDALE		CLAYSTONE & SILTSTONE	3.3	1202.8	
-650.0	CARBONDALE		LIMESTONE	0.4	1206.0	
-650.4	CARBONDALE		CLAYSTONE & SILTSTONE	0.1	1206.4	
-650.5	CARBONDALE		LIMESTONE	1.2	1206.5	
-651.6	CARBONDALE		CLAYSTONE & SILTSTONE	0.3	1207.6	
-651.9	CARBONDALE		LIMESTONE	0.8	1207.9	

-652.6	CARBONDALE		CLAYSTONE & SILTSTONE	0.3	1208.6	
-652.9	CARBONDALE		GRAY SHALE	1.1	1208.9	
-654.0	CARBONDALE		CLAYSTONE & SILTSTONE	2.0	1210.0	CORE #3 1210-1220
-656.0	CARBONDALE		LIMESTONE	0.9	1212.0	
-656.9	CARBONDALE		GRAY SHALE	1.0	1212.9	
-657.8	CARBONDALE		LIMESTONE	0.4	1213.8	
-658.2	CARBONDALE		SANDY SHALE	0.4	1214.2	
-658.6	CARBONDALE		LIMESTONE	1.6	1214.6	
-660.1	CARBONDALE		SILTY SHALE	1.0	1216.1	
-661.1	CARBONDALE		CORE LOSS	0.3	1217.1	
-661.3	CARBONDALE		GRAY SHALE	2.7	1217.3	CORE #4 1220-1229.5
-664.0	CARBONDALE		GRAY SHALE	6.4	1220.0	
-670.4	CARBONDALE	BRIAR HILL	COAL	1.9	1226.4	
-672.3	CARBONDALE		GRAY SHALE	8.6	1228.3	CORE #5 1229.5-1239.5
-680.9	CARBONDALE	ST. DAVID	LIMESTONE	0.3	1236.9	
-681.2	CARBONDALE	SPRINGFIELD	COAL	0.4	1237.2	
-681.6	CARBONDALE		CORE LOSS	1.9	1237.6	PROBABLY #5 COAL
-683.5			GRAY SHALE	60.5	1239.5	

MAPID: 07900290000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 7N 9E **SECTION:** 16 **QUARTERS/FOOTAGES:** 310' N line, 350' E line of SE NE
QUADRANGLE: ROSE HILL **LONGITUDE:** -88.209977 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.048549 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 497.0 **LOGGED (FT.):** 1372.0 **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
-235.0	BOND	CARTHAGE	LIMESTONE	5.0	732.0
-464.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	961.0
-563.0	CARBONDALE	DANVILLE	COAL	3.5	1060.0
-601.0	CARBONDALE	HERRIN	COAL	5.0	1098.0
-636.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1133.0
-713.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1210.0
-840.0	CARBONDALE	COLCHESTER	COAL	-	1337.0
-871.0	SPOON	SEELYVILLE	COAL	4.0	1368.0

MAPID: 07903083000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 7N 9E **SECTION:** 19 **QUARTERS/FOOTAGES:** 2310' N line, 990' E line
QUADRANGLE: ROSE HILL **LONGITUDE:** -88.24992 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.032043 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 569.0 **LOGGED (FT.):** 1493.0 **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
-284.0	BOND	CARTHAGE	LIMESTONE	5.0	853.0
-447.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	1016.0
-641.0	CARBONDALE	HERRIN	COAL	2.0	1210.0
-673.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1242.0
-767.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1336.0
-906.0	CARBONDALE	COLCHESTER	COAL	-	1475.0
-916.0	SPOON	SEELYVILLE	COAL	8.0	1485.0

MAPID: 07901226000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 7N 9E **SECTION:** 20 **QUARTERS/FOOTAGES:** SW SW SE
QUADRANGLE: ROSE HILL **LONGITUDE:** -88.235816 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.024572 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 559.0 **LOGGED (FT.):** 1465.0 **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
-283.0	BOND	CARTHAGE	LIMESTONE	4.0	842.0
-453.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	1012.0
-591.0	CARBONDALE	DANVILLE	COAL	2.5	1150.0
-627.0	CARBONDALE	HERRIN	COAL	3.5	1186.0
-661.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1220.0
-744.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1303.0
-881.0	CARBONDALE	COLCHESTER	COAL	-	1440.0
-900.0	SPOON	SEELYVILLE	COAL	6.0	1459.0

MAPID: 07900499000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 7N 9E

SECTION: 22

QUARTERS/FOOTAGES: NE NE SW

QUADRANGLE: ROSE HILL

LONGITUDE: -88.200378

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.030007

DATE COLLECTED:

SURFACE ELEVATION (FT.): 492.0

LOGGED (FT.): 1369.0

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
-271.0	BOND	CARTHAGE	LIMESTONE	5.0	763.0
-433.0	MODESTO	TRIVOLI	SANDSTONE	51.0	925.0
-510.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	1002.0
-585.0	CARBONDALE	DANVILLE	COAL	3.0	1077.0
-630.0	CARBONDALE	HERRIN	COAL	4.0	1122.0
-669.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1161.0
-738.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1230.0
-877.0	CARBONDALE	COLCHESTER	COAL	-	1369.0

MAPID: 07922854000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 22 QUARTERS/FOOTAGES: 3931' N line, 2187' W line
 QUADRANGLE: ROSE HILL LONGITUDE: -88.200952 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.02746 DATE COLLECTED: 12 / 1 / 1978
 SURFACE ELEVATION (FT.): 485.0 LOGGED (FT.): 1220.0 LOG TYPE: Multiple log types
 SOURCE: COASTAL STATES ILJC-78-5 WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS, NEUTRON, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
485.0			UNCONSOLIDATED	20.0	0.0	
465.0	MATTOON	FALMOUTH	BLACK SHALE	2.0	20.0	DRILLERS LOG VERY GENERALIZED
463.0	MATTOON		SHALE	38.0	22.0	
425.0	MATTOON	TROWBRIDGE	COAL	2.0	60.0	
423.0	MATTOON		GRAY SHALE	18.0	62.0	
405.0	MATTOON	INGRAHAM	BLACK SHALE	6.0	80.0	
399.0	MATTOON		GRAY SHALE	72.0	86.0	
327.0	MATTOON	SHUMWAY	LIMESTONE	5.0	158.0	
322.0	MATTOON	TEUTOPOLIS	BLACK SHALE	3.0	163.0	OFF GAMMA LOG
319.0	MATTOON		SHALE & MUDSTONE	14.0	166.0	
305.0	MATTOON		SILTSTONE	10.0	180.0	
295.0	MATTOON		GRAY SHALE	10.0	190.0	
285.0	MATTOON		MUDSTONE	20.0	200.0	
265.0	MATTOON		SHALE	20.0	220.0	
245.0	MATTOON		SANDSTONE	130.0	240.0	
115.0	MATTOON		SANDY SHALE	30.0	370.0	
85.0	MATTOON		GRAY SHALE	30.0	400.0	
55.0	MATTOON		MUDSTONE	10.0	430.0	
45.0	MATTOON		BLACK SHALE	6.0	440.0	OFF GAMMA LOG
39.0	MATTOON		GRAY SHALE	14.0	446.0	
25.0	MATTOON		SILTSTONE	20.0	460.0	
5.0	MATTOON		GRAY SHALE	20.0	480.0	
-15.0	MATTOON		SANDSTONE	10.0	500.0	
-25.0	MATTOON		SHALE/COAL	10.0	510.0	
-35.0	MATTOON		SANDSTONE	56.0	520.0	
-91.0	BOND	MILLERSVILLE	LIMESTONE	8.0	576.0	OFF GAMMA LOG
-99.0	BOND		SHALE/COAL	56.0	584.0	
-155.0	BOND		GRAY SHALE	14.0	640.0	
-169.0	BOND		BLACK SHALE	3.0	654.0	OFF GAMMA LOG
-172.0	BOND		DARK SHALE	13.0	657.0	
-185.0	BOND		SILTSTONE	10.0	670.0	
-195.0	BOND		GRAY SHALE	20.0	680.0	
-215.0	BOND		SANDSTONE	10.0	700.0	
-225.0	BOND		SILTSTONE	10.0	710.0	
-235.0	BOND		GRAY SHALE	10.0	720.0	
-245.0	BOND		SILTSTONE	22.0	730.0	
-267.0	BOND	CARTHAGE	LIMESTONE	4.0	752.0	THICKNESS OFF GAMMA LOG
-271.0	MODESTO	NEW HAVEN	BLACK SHALE	3.0	756.0	
-274.0	MODESTO		GRAY SHALE	45.0	759.0	

-319.0	MODESTO	CHAPEL	BLACK SHALE	4.0	804.0	OFF GAMMA LOG
-323.0	MODESTO		GRAY SHALE	62.0	808.0	
-385.0	MODESTO		SHALE & SILTSTONE	30.0	870.0	OFF GAMMA LOG
-415.0	MODESTO		BLACK SHALE	2.0	900.0	
-417.0	MODESTO		SHALE & SILTSTONE	58.0	902.0	
-475.0	MODESTO		GRAY SHALE	10.0	960.0	
-485.0	MODESTO		CALCAREOUS SHALE	30.0	970.0	
-515.0	MODESTO		GRAY SHALE	34.0	1000.0	
-549.0	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	1034.0	OFF GAMMA LOG
-551.0	MODESTO	WEST FRANKLIN	SHALE	6.0	1036.0	OFF GAMMA LOG
-557.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	1042.0	OFF GAMMA LOG
-564.0	MODESTO		GRAY SHALE	23.0	1049.0	
-587.0	CARBONDALE	DANVILLE	COAL	3.0	1072.0	
-590.0	CARBONDALE		GRAY SHALE	7.0	1075.0	
-597.0	CARBONDALE	BANKSTON FORK	LIMESTONE	8.0	1082.0	OFF GAMMA LOG
-605.0	CARBONDALE		GRAY SHALE	9.0	1090.0	
-614.0	CARBONDALE		SHALE	1.2	1099.0	[CORE #1 1099-1107.79] WITH IRONSTONE
-615.2	CARBONDALE		SILTSTONE	0.9	1100.2	
-616.1	CARBONDALE		SHALE	0.5	1101.1	
-616.6	CARBONDALE		SILTSTONE	0.6	1101.6	
-617.2	CARBONDALE		SHALE	0.4	1102.2	
-617.5	CARBONDALE	CONANT	LIMESTONE	1.8	1102.5	
-619.3	CARBONDALE		DARK SHALE	1.6	1104.3	
-620.9	CARBONDALE	JAMESTOWN	COAL	2.8	1105.9	
-623.7	CARBONDALE		CARBONACEOUS SHALE	0.8	1108.7	CORE #2 1107.79-1117.65'
-624.5	CARBONDALE		GRAY SHALE	2.3	1109.5	
-626.8	CARBONDALE	BRERETON	LIMESTONE	5.1	1111.8	
-631.9	CARBONDALE	ANNA	CARBONACEOUS SHALE	1.6	1116.9	
-633.5	CARBONDALE	HERRIN	COAL	5.6	1118.5	CORE #3 1117.65-1127.39
-639.0	CARBONDALE		CARBONACEOUS SHALE	0.1	1124.0	
-639.1	CARBONDALE		UNDERCLAY	3.3	1124.1	
-642.4	CARBONDALE		CORE LOSS	0.1	1127.4	CORE #4 1127.39-1137.45
-642.5	CARBONDALE		UNDERCLAY	2.0	1127.5	
-644.5	CARBONDALE		GRAY SHALE	0.4	1129.5	
-644.9	CARBONDALE		LIMESTONE	0.5	1129.9	
-645.4	CARBONDALE		GRAY SHALE	0.3	1130.4	
-645.7	CARBONDALE		LIMESTONE	0.4	1130.7	
-646.1	CARBONDALE		SHALE	0.9	1131.1	"IRONSTONE"
-647.1	CARBONDALE		GRAY SHALE	5.4	1132.1	
-652.5	CARBONDALE		GRAY SHALE	2.9	1137.5	CORE #5 1137.75-1146.85
-655.3	CARBONDALE		CARBONACEOUS SHALE	5.0	1140.3	
-660.3	CARBONDALE	BRIAR HILL	COAL	1.6	1145.3	
-661.9	CARBONDALE		CARBONACEOUS SHALE	0.2	1146.9	CORE #6 1146.85-1159.2
-662.1	CARBONDALE		CLAYSTONE & SILTSTONE	0.5	1147.1	
-662.6	CARBONDALE		SILTY SHALE	2.7	1147.6	
-665.2	CARBONDALE	ST. DAVID	LIMESTONE	6.1	1150.2	
-671.4	CARBONDALE	TURNER MINE	CARBONACEOUS SHALE	0.7	1156.4	

-672.0	CARBONDALE	TURNER MINE	CLAYSTONE & SHALE	0.3	1157.0	COALY SH
-672.3	CARBONDALE	SPRINGFIELD	COAL	4.1	1157.3	
-676.3	CARBONDALE		CLAYSTONE & SHALE	0.1	1161.3	
-676.5	CARBONDALE		UNDERCLAY	0.8	1161.5	
-677.3	CARBONDALE		GRAY SHALE	57.7	1162.3	

MAPID: 07900273000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 24 QUARTERS/FOOTAGES: NW SW NE

QUADRANGLE: ROSE HILL LONGITUDE: -88.160262 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.034119 DATE COLLECTED:

SURFACE ELEVATION (FT.): 545.0 LOGGED (FT.): 1410.0 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
-233.0	BOND	CARTHAGE	LIMESTONE	6.0	778.0
-557.0	CARBONDALE	DANVILLE	COAL	-	1102.0
-607.0	CARBONDALE	HERRIN	COAL	4.0	1152.0
-637.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1182.0
-715.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1260.0
-835.0	CARBONDALE	COLCHESTER	COAL	-	1380.0
-861.0	SPOON	SEELYVILLE	COAL	4.0	1406.0

MAPID: 07901259000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 26 QUARTERS/FOOTAGES: SW SW SW

QUADRANGLE: ROSE HILL LONGITUDE: -88.188318 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.009762 DATE COLLECTED:

SURFACE ELEVATION (FT.): 511.0 LOGGED (FT.): 1431.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-276.0	BOND	CARTHAGE	LIMESTONE	5.0	787.0
-444.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	955.0
-598.0	CARBONDALE	DANVILLE	COAL	3.0	1109.0
-643.0	CARBONDALE	HERRIN	COAL	4.0	1154.0
-678.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1189.0
-749.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1260.0
-901.0	CARBONDALE	COLCHESTER	COAL	-	1412.0
-916.0	SPOON	SEELYVILLE	COAL	4.0	1427.0

MAPID: 07901239000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 27 QUARTERS/FOOTAGES: SW NW SE
QUADRANGLE: ROSE HILL LONGITUDE: -88.197815 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.013463 DATE COLLECTED:
SURFACE ELEVATION (FT.): 549.0 LOGGED (FT.): 1458.0 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	BOND	CARTHAGE	LIMESTONE	4.0	800.0
-447.0	MODESTO	TRIVOLI	SANDSTONE	22.0	996.0
-473.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	1022.0
-597.0	CARBONDALE	DANVILLE	COAL	3.0	1146.0
-631.0	CARBONDALE	HERRIN	COAL	5.0	1180.0
-668.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1217.0
-739.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1288.0
-875.0	CARBONDALE	COLCHESTER	COAL	-	1424.0
-903.0	SPOON	SEELYVILLE	COAL	6.0	1452.0

MAPID: 07901279000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 27 QUARTERS/FOOTAGES: 660' N line, 990' E line of SW SE
QUADRANGLE: ROSE HILL LONGITUDE: -88.197738 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.010726 DATE COLLECTED:
SURFACE ELEVATION (FT.): 548.0 LOGGED (FT.): 1438.0 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
-268.0	BOND	CARTHAGE	LIMESTONE	5.0	816.0
-468.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	1016.0
-601.0	CARBONDALE	DANVILLE	COAL	-	1149.0
-648.0	CARBONDALE	HERRIN	COAL	4.5	1196.0
-683.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1231.0
-758.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1306.0
-890.0	CARBONDALE	COLCHESTER	COAL	-	1438.0

MAPID: 07901374000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 7N 9E

SECTION: 29

QUARTERS/FOOTAGES: SE SW NW

QUADRANGLE: ROSE HILL

LONGITUDE: -88.242618

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.017202

DATE COLLECTED:

SURFACE ELEVATION (FT.): 560.0

LOGGED (FT.): 1503.0

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
-310.0	BOND	CARTHAGE	LIMESTONE	7.0	870.0
-392.0	MODESTO	TRIVOLI	SANDSTONE	54.0	952.0
-473.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	1033.0
-611.0	CARBONDALE	DANVILLE	COAL	-	1171.0
-649.0	CARBONDALE	HERRIN	COAL	5.0	1209.0
-686.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1246.0
-775.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1335.0
-915.0	CARBONDALE	COLCHESTER	COAL	-	1475.0
-940.0	SPOON	SEELYVILLE	COAL	3.0	1500.0

MAPID: 07922855000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 29 QUARTERS/FOOTAGES: 1034' S line, 93' W line
 QUADRANGLE: ROSE HILL LONGITUDE: -88.245654 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.011633 DATE COLLECTED: 11 / 18 / 1978
 SURFACE ELEVATION (FT.): 556.0 LOGGED (FT.): 1300.0 LOG TYPE: Multiple log types
 SOURCE: COASTAL STATES ILJC-78-10 WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS, NEUTRON, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
556.0			UNCONSOLIDATED	20.0	0.0	
536.0	MATTOON		SANDSTONE	21.0	20.0	
515.0	MATTOON		SILTSTONE	39.0	41.0	
476.0	MATTOON		SHALE	33.0	80.0	
443.0	MATTOON	FALMOUTH	BLACK SHALE	2.0	113.0	OFF GAMMA LOG
441.0	MATTOON		SHALE	5.0	115.0	
436.0	MATTOON		SILTSTONE	22.0	120.0	
414.0	MATTOON	WETWETHER	BLACK SHALE	2.0	142.0	
412.0	MATTOON		DARK SHALE	8.0	144.0	
404.0	MATTOON	TROWBRIDGE	COAL	1.0	152.0	
403.0	MATTOON		UNCLASSIFIED	3.0	153.0	
400.0	MATTOON		GRAY SHALE	3.0	156.0	
397.0	MATTOON		SILTSTONE	12.0	159.0	
385.0	MATTOON	INGRAHAM	BLACK SHALE	7.0	171.0	OFF GAMMA LOG
378.0	MATTOON		CALCAREOUS SHALE	12.0	178.0	
366.0	MATTOON		SANDSTONE	10.0	190.0	
356.0	MATTOON		SHALE	40.0	200.0	
316.0	MATTOON		SANDSTONE	10.0	240.0	
306.0	MATTOON		SILTSTONE	2.0	250.0	
304.0	MATTOON	TEUTOPOLIS	BLACK SHALE	2.0	252.0	OFF GAMMA LOG
302.0	MATTOON		SILTSTONE	11.0	254.0	
291.0	MATTOON		SHALE	65.0	265.0	
226.0	MATTOON		SANDSTONE	20.0	330.0	
206.0	MATTOON		GRAY SHALE	20.0	350.0	
186.0	MATTOON		SANDSTONE	16.0	370.0	
170.0	MATTOON		BLACK SHALE & CLAY	4.0	386.0	
166.0	MATTOON		SANDSTONE/SHALE	50.0	390.0	
116.0	MATTOON		GRAY SHALE	50.0	440.0	
66.0	MATTOON		SILTSTONE	48.0	490.0	
18.0	MATTOON		BLACK SHALE	2.0	538.0	OFF GAMMA LOG
16.0	MATTOON		SHALY SANDSTONE	10.0	540.0	
6.0	MATTOON		SANDSTONE	25.0	550.0	
-19.0	MATTOON		SILTY SHALE	21.0	575.0	
-40.0	MATTOON		SANDSTONE	4.0	596.0	
-44.0	MATTOON		GRAY SHALE	10.0	600.0	
-54.0	MATTOON		SILTSTONE	20.0	610.0	
-74.0	MATTOON		GRAY SHALE	38.0	630.0	
-112.0	MATTOON		COAL	1.5	668.0	OFF GAMMA LOG
-113.5	MATTOON		GRAY SHALE	7.0	669.5	

-120.5	BOND	MILLERSVILLE	LIMESTONE	6.5	676.5	
-127.0	BOND		GRAY SHALE	68.0	683.0	
-195.0	BOND		BLACK SHALE	2.0	751.0	OFF GAMMA LOG
-197.0	BOND		SILTSTONE	27.0	753.0	
-224.0	BOND		GRAY SHALE	14.0	780.0	
-238.0	BOND		COAL	2.0	794.0	
-240.0	BOND		GRAY SHALE	54.0	796.0	
-294.0	BOND		BLACK SHALE	9.0	850.0	
-303.0	BOND	CARTHAGE	LIMESTONE	4.0	859.0	OFF GAMMA LOG
-307.0	MODESTO	NEW HAVEN	BLACK SHALE	4.0	863.0	OFF GAMMA LOG
-311.0	MODESTO		SHALE	12.0	867.0	
-323.0	MODESTO	CHAPEL	COAL	1.0	879.0	OFF GAMMA LOG
-324.0	MODESTO		BLACK SHALE	10.0	880.0	#8 COAL MISSING
-334.0	MODESTO		GRAY SHALE	40.0	890.0	
-374.0	MODESTO		SHALE & SANDSTONE	20.0	930.0	
-394.0	MODESTO		SANDSTONE/SHALE	50.0	950.0	
-444.0	MODESTO		SANDSTONE	11.0	1000.0	
-455.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	1011.0	OFF GAMMA LOG
-459.0	MODESTO	WEST FRANKLIN	SHALE	2.0	1015.0	
-461.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	1017.0	
-469.0	MODESTO		GRAY SHALE	75.0	1025.0	
-544.0	MODESTO		LIMESTONE/SHALE/SANDS TONE	10.0	1100.0	
-554.0	MODESTO		SHALE/COAL	30.0	1110.0	
-584.0	MODESTO		GRAY SHALE	28.5	1140.0	
-612.5	CARBONDALE	DANVILLE	COAL	3.5	1168.5	
-616.0	CARBONDALE		SHALE & SANDSTONE	16.0	1172.0	
-632.0	CARBONDALE		GRAY SHALE	5.9	1188.0	
-637.9	CARBONDALE	CONANT	LIMESTONE	1.8	1193.9	CORE #1 1188-1204.2
-639.6	CARBONDALE	JAMESTOWN	COAL	2.7	1195.6	
-642.3	CARBONDALE		DARK SHALE & BLACK SHALE	1.2	1198.3	
-643.5	CARBONDALE	BRERETON	LIMESTONE	4.7	1199.5	CORE #2 1204.2-1224
-648.2	CARBONDALE	ANNA	BLACK SHALE	3.2	1204.2	
-651.4	CARBONDALE	HERRIN	COAL	5.7	1207.4	
-657.1	CARBONDALE		CLAYSTONE & SILTSTONE	2.7	1213.1	
-659.8	CARBONDALE		SILTSTONE	7.7	1215.8	
-667.5	CARBONDALE		SILTSTONE/LIMESTONE	0.5	1223.5	
-668.0	CARBONDALE		GRAY SHALE	8.9	1224.0	CORE #3 1224-1241
-676.9	CARBONDALE	BRIAR HILL	COAL	1.0	1232.9	
-677.9	CARBONDALE		CLAYSTONE & SILTSTONE	0.7	1233.9	
-678.6	CARBONDALE		GRAY SHALE	5.6	1234.6	
-684.2	CARBONDALE		UNKNOWN	0.8	1240.2	
-685.0	CARBONDALE	ST. DAVID	LIMESTONE	1.8	1241.0	CORE #4 1241-1257
-686.8	CARBONDALE	TURNER MINE	CARBONACEOUS SHALE	0.8	1242.8	
-687.6	CARBONDALE	SPRINGFIELD	COAL	4.6	1243.6	
-692.1	CARBONDALE		CLAYSTONE & SILTSTONE	3.9	1248.1	
-696.0	CARBONDALE		SHALE	8.0	1252.0	

-704.0	CARBONDALE	SHALE & SANDSTONE	10.0	1260.0
-714.0	CARBONDALE	SHALE	30.0	1270.0

MAPID: 07923258000C VERSION: 1

PROJECT: NCRDS92

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 29 QUARTERS/FOOTAGES: 90' N line, 2614' E line
 QUADRANGLE: ROSE HILL LONGITUDE: -88.236941 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.023419 DATE COLLECTED: 7 / 25 / 1980
 SURFACE ELEVATION (FT.): 558.0 LOGGED (FT.): 1516.0 LOG TYPE: Drillers Log
 SOURCE: MOBIL OIL CORP. IG8029-14C WELL TYPE: Coal Test
 COMMENT: WELL: IG-80-29-14C

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
558.0			CLAY	18.0	0.0	
540.0	MATTOON		SANDY SHALE	42.0	18.0	
498.0	MATTOON		GRAY SHALE	48.0	60.0	
450.0	MATTOON		LIMESTONE	1.0	108.0	
449.0	MATTOON		SANDSTONE	3.0	109.0	
446.0	MATTOON		GRAY SHALE	13.0	112.0	
433.0	MATTOON		DARK GRAY SHALE	25.0	125.0	
408.0	MATTOON		LIMESTONE	0.5	150.0	
407.5	MATTOON		DARK GRAY SHALE	1.5	150.5	
406.0	MATTOON		BLACK SHALE	6.0	152.0	
400.0	MATTOON		GRAY SHALE	38.0	158.0	
362.0	MATTOON		CALCAREOUS SHALE	8.0	196.0	
354.0	MATTOON		GRAY SHALE	12.0	204.0	
342.0	MATTOON		LIMESTONE	0.8	216.0	
341.2	MATTOON		GRAY SHALE	3.2	216.8	
338.0	MATTOON		LIMESTONE	2.0	220.0	
336.0	MATTOON		GRAY SHALE	8.0	222.0	
328.0	MATTOON		GRAY SHALE	16.0	230.0	
312.0	MATTOON		GRAY SHALE	15.0	246.0	
297.0	MATTOON		SANDY SHALE	21.0	261.0	
276.0	MATTOON		SANDSTONE	24.0	282.0	
252.0	MATTOON		LIMESTONE	1.5	306.0	
250.5	MATTOON		SANDY SHALE	23.5	307.5	
227.0	MATTOON		LIMESTONE	7.0	331.0	
220.0	MATTOON		SANDSTONE	51.5	338.0	
168.5	MATTOON		LIMESTONE	6.5	389.5	LS W/ SS
162.0	MATTOON		SANDSTONE	64.0	396.0	
98.0	MATTOON		SANDY SHALE	6.0	460.0	
92.0	MATTOON		GRAY SHALE	72.0	466.0	
20.0	MATTOON		SANDSTONE	4.0	538.0	
16.0	MATTOON		SANDY SHALE	10.0	542.0	
6.0	MATTOON		CALCAREOUS SANDSTONE	6.0	552.0	
0.0	MATTOON		LIMESTONE	2.0	558.0	
-2.0	MATTOON		SANDY SHALE	31.0	560.0	
-33.0	MATTOON		COAL	1.0	591.0	
-34.0	MATTOON		LIMESTONE	2.0	592.0	
-36.0	MATTOON		CALCAREOUS SANDSTONE	6.0	594.0	
-42.0	MATTOON		SANDSTONE	16.0	600.0	

-58.0	MATTOON		SANDY SHALE	30.5	616.0	
-88.5	MATTOON		LIMESTONE	0.5	646.5	
-89.0	MATTOON		GRAY SHALE	4.0	647.0	
-93.0	BOND	MILLERSVILLE	LIMESTONE	6.5	651.0	
-99.5	BOND		CALCAREOUS SHALE	2.5	657.5	
-102.0	BOND		GRAY SHALE	19.0	660.0	
-121.0	BOND		COAL	2.0	679.0	
-123.0	BOND		GRAY SHALE	64.0	681.0	
-187.0	BOND		CALCAREOUS SHALE	6.0	745.0	
-193.0	BOND		GRAY SHALE	30.0	751.0	
-223.0	BOND		LIMESTONE	0.5	781.0	
-223.5	BOND		GRAY SHALE	0.5	781.5	
-224.0	BOND		LIMESTONE	2.0	782.0	
-226.0	BOND		SANDSTONE	26.0	784.0	
-252.0	BOND		SANDY SHALE	23.0	810.0	
-275.0	BOND		LIMESTONE	5.0	833.0	
-280.0	BOND	CARTHAGE	LIMESTONE	2.5	838.0	
-282.5	MODESTO		GRAY SHALE	0.5	840.5	
-283.0	MODESTO		BLACK SHALE	5.0	841.0	
-288.0	MODESTO		GRAY SHALE	11.5	846.0	
-299.5	MODESTO		COAL	1.0	857.5	
-300.5	MODESTO		GRAY SHALE	23.5	858.5	
-324.0	MODESTO		CALCAREOUS SHALE	2.0	882.0	
-326.0	MODESTO		GRAY SHALE	8.0	884.0	
-334.0	MODESTO		SANDSTONE	48.0	892.0	
-382.0	MODESTO		SANDSTONE	22.0	940.0	SS W/ SHALE
-404.0	MODESTO		SANDSTONE	84.0	962.0	
-488.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	1046.0	
-496.0	MODESTO		GRAY SHALE	17.0	1054.0	
-513.0	MODESTO		CALCAREOUS SHALE	5.0	1071.0	
-518.0	MODESTO		GRAY SHALE	79.0	1076.0	
-597.0	CARBONDALE	DANVILLE	COAL	3.5	1155.0	
-600.5	CARBONDALE		GRAY SHALE	9.5	1158.5	
-610.0	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	1168.0	
-613.0	CARBONDALE	BANKSTON FORK	CALCAREOUS SHALE	5.0	1171.0	
-618.0	CARBONDALE	BANKSTON FORK	LIMESTONE	2.5	1176.0	
-620.5	CARBONDALE		GRAY SHALE	5.5	1178.5	
-626.0	CARBONDALE	CONANT	LIMESTONE	1.6	1184.0	
-627.6	CARBONDALE	JAMESTOWN	COAL	1.9	1185.6	
-629.5	CARBONDALE		GRAY SHALE	3.5	1187.5	
-633.0	CARBONDALE	BRERETON	LIMESTONE	6.0	1191.0	
-639.0	CARBONDALE		SHALE	0.5	1197.0	
-639.5	CARBONDALE	HERRIN	COAL	5.5	1197.5	
-645.0	CARBONDALE		GRAY SHALE	23.0	1203.0	
-668.0	CARBONDALE	BRIAR HILL	COAL	1.5	1226.0	
-669.5	CARBONDALE		GRAY SHALE	4.5	1227.5	
-674.0	CARBONDALE	ST. DAVID	LIMESTONE	4.0	1232.0	
-678.0	CARBONDALE	TURNER MINE	BLACK SHALE	3.0	1236.0	

-681.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1239.0	
-685.0	CARBONDALE		GRAY SHALE	1.0	1243.0	
-686.0	CARBONDALE		CALCAREOUS SHALE	6.0	1244.0	
-692.0	CARBONDALE		GRAY SHALE	52.0	1250.0	
-744.0	CARBONDALE		GRAY SHALE	22.0	1302.0	
-766.0	CARBONDALE		LIMESTONE	0.8	1324.0	
-766.8	CARBONDALE	HOUCHIN CREEK	COAL	4.7	1324.8	CO AND BK SH
-771.5	CARBONDALE		GRAY SHALE	23.5	1329.5	
-795.0	CARBONDALE		LIMESTONE	3.0	1353.0	
-798.0	CARBONDALE		GRAY SHALE	45.0	1356.0	
-843.0	CARBONDALE	SURVANT - UPPER	COAL	2.0	1401.0	
-845.0	CARBONDALE		GRAY SHALE	32.0	1403.0	
-877.0	CARBONDALE	SURVANT - LOWER	COAL	1.0	1435.0	
-878.0	CARBONDALE		GRAY SHALE	28.0	1436.0	
-906.0	CARBONDALE	COLCHESTER	COAL	2.0	1464.0	
-908.0	SPOON		GRAY SHALE	6.0	1466.0	
-914.0	SPOON		SANDSTONE	4.0	1472.0	
-918.0	SPOON		GRAY SHALE	1.0	1476.0	
-919.0	SPOON	SEELYVILLE	COAL	2.5	1477.0	
-921.5	SPOON		GRAY SHALE	10.5	1479.5	
-932.0	SPOON	SEELYVILLE	COAL	1.0	1490.0	
-933.0	SPOON		GRAY SHALE	2.0	1491.0	
-935.0	SPOON	SEELYVILLE	COAL	2.5	1493.0	
-937.5	SPOON		GRAY SHALE	6.5	1495.5	
-944.0	SPOON		GRAY SHALE	14.0	1502.0	

MAPID: 07922856000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 30 QUARTERS/FOOTAGES: 72' N line, 406' W line
 QUADRANGLE: WHEELER LONGITUDE: -88.259209 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.021889 DATE COLLECTED: 11 / 2 / 1978
 SURFACE ELEVATION (FT.): 561.7 LOGGED (FT.): 1208.0 LOG TYPE: Multiple log types
 SOURCE: COASTAL STATES ILJC-78-4 WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS., NEU. LOG & CORE DESC.

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
449.7	MATTOON	FALMOUTH	BLACK SHALE	2.0	112.0
447.7	MATTOON		UNCLASSIFIED	28.0	114.0
419.7	MATTOON	WETWETHER	BLACK SHALE	2.0	142.0
417.7	MATTOON		UNCLASSIFIED	8.0	144.0
409.7	MATTOON	TROWBRIDGE	COAL	2.0	152.0
407.7	MATTOON		UNCLASSIFIED	8.0	154.0
399.7	MATTOON	INGRAHAM	BLACK SHALE	6.0	162.0
393.7	MATTOON		UNCLASSIFIED	81.0	168.0
312.7	MATTOON	TEUTOPOLIS	BLACK SHALE	2.0	249.0
310.7	MATTOON		UNCLASSIFIED	97.0	251.0
213.7	MATTOON		SANDSTONE	84.0	348.0
129.7	MATTOON		UNCLASSIFIED	112.0	432.0
17.7	MATTOON		BLACK SHALE	2.0	544.0
15.7	MATTOON		UNCLASSIFIED	43.0	546.0
-27.3	MATTOON		BLACK SHALE	1.5	589.0
-28.8	MATTOON		UNCLASSIFIED	71.5	590.5
-100.3	MATTOON		COAL	2.0	662.0
-102.3	MATTOON		UNCLASSIFIED	6.0	664.0
-108.3	BOND	MILLERSVILLE	LIMESTONE	6.0	670.0
-114.3	BOND		BLACK SHALE	4.0	676.0
-118.3	BOND		UNCLASSIFIED	68.0	680.0
-186.3	BOND		BLACK SHALE	2.5	748.0
-188.8	BOND		UNCLASSIFIED	38.5	750.5
-227.3	BOND		COAL	2.0	789.0
-229.3	BOND		UNCLASSIFIED	61.5	791.0
-290.8	BOND	CARTHAGE	LIMESTONE	4.5	852.5
-295.3	MODESTO	NEW HAVEN	BLACK SHALE & CLAY	2.5	857.0
-297.8	MODESTO		UNCLASSIFIED	32.5	859.5
-330.3	MODESTO	CHAPEL	BLACK SHALE	3.0	892.0
-333.3	MODESTO		UNCLASSIFIED	128.0	895.0
-461.3	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	1023.0
-466.3	MODESTO	WEST FRANKLIN	SHALE	13.0	1028.0
-479.3	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	1041.0
-484.3	MODESTO		UNCLASSIFIED	117.0	1046.0
-601.3	CARBONDALE	DANVILLE	COAL	3.0	1163.0
-604.3	CARBONDALE		UNCLASSIFIED	5.0	1166.0
-609.3	CARBONDALE	BANKSTON FORK	LIMESTONE	5.0	1171.0
-614.3	CARBONDALE		UNCLASSIFIED	12.0	1176.0
-626.3	CARBONDALE	CONANT	LIMESTONE	3.0	1188.0

-629.3	CARBONDALE		SHALE	1.0	1191.0
-630.3	CARBONDALE	JAMESTOWN	COAL	2.0	1192.0
-632.3	CARBONDALE	BRERETON	LIMESTONE	2.0	1194.0
-634.3	CARBONDALE	ANNA	BLACK SHALE	6.0	1196.0
-640.3	CARBONDALE	HERRIN	COAL	6.0	1202.0

MAPID: 07922857000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 30 QUARTERS/FOOTAGES: 47' N line, 627' W line of NW NW NW

QUADRANGLE: WHEELER LONGITUDE: -88.258412 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.023733 DATE COLLECTED: 11 / 28 / 1978

SURFACE ELEVATION (FT.): 560.0 LOGGED (FT.): 1296.0 LOG TYPE: Multiple log types

SOURCE: COASTAL STATES ILJC-78-4R WELL TYPE: Coal Test

COMMENT: GAMMA, DENS, NEUTRON, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
560.0			UNCONSOLIDATED	60.0	0.0	DRILLERS LOG VERY GENERALIZED
500.0	MATTOON		MUDSTONE & SILTSTONE	46.0	60.0	
454.0	MATTOON	FALMOUTH	BLACK SHALE	2.0	106.0	OFF GAMMA LOG
452.0	MATTOON		GRAY SHALE	28.0	108.0	OFF GAMMA LOG
424.0	MATTOON	WETWETHER	BLACK SHALE	1.0	136.0	OFF GAMMA LOG
423.0	MATTOON		GRAY SHALE	9.0	137.0	OFF GAMMA LOG
414.0	MATTOON	TROWBRIDGE	COAL	2.0	146.0	OFF GAMMA LOG
412.0	MATTOON		MUDSTONE & SHALE	7.0	148.0	OFF GAMMA LOG
405.0	MATTOON		SILTSTONE	9.0	155.0	OFF GAMMA LOG
396.0	MATTOON	INGRAHAM	BLACK SHALE	6.0	164.0	OFF GAMMA LOG
390.0	MATTOON		SILTSTONE	20.0	170.0	
370.0	MATTOON		MUDSTONE	52.0	190.0	
318.0	MATTOON	TEUTOPOLIS	BLACK SHALE	3.0	242.0	OFF GAMMA LOG
315.0	MATTOON		DARK SHALE	15.0	245.0	
300.0	MATTOON		SILTSTONE	40.0	260.0	
260.0	MATTOON		MUDSTONE	10.0	300.0	
250.0	MATTOON		SILTSTONE	20.0	310.0	
230.0	MATTOON		SANDSTONE	25.0	330.0	
205.0	MATTOON		SILTSTONE	35.0	355.0	
170.0	MATTOON		SANDSTONE	85.0	390.0	
85.0	MATTOON		SILTSTONE	5.0	475.0	
80.0	MATTOON		SILTY SHALE	10.0	480.0	
70.0	MATTOON		MUDSTONE	20.0	490.0	
50.0	MATTOON		SILTY SHALE	10.0	510.0	
40.0	MATTOON		GRAY SHALE	19.0	520.0	
21.0	MATTOON		BLACK SHALE	2.0	539.0	
19.0	MATTOON		GRAY SHALE	29.0	541.0	
-10.0	MATTOON		SANDSTONE/COAL	50.0	570.0	
-60.0	MATTOON		SANDSTONE	46.0	620.0	
-106.0	BOND	MILLERSVILLE	LIMESTONE	6.0	666.0	OFF GAMMA LOG
-112.0	BOND		DARK SHALE	2.5	672.0	OFF GAMMA LOG
-114.5	BOND		SANDSTONE	69.5	674.5	
-184.0	BOND		BLACK SHALE	2.0	744.0	OFF GAMMA LOG
-186.0	BOND		MUDSTONE	64.0	746.0	
-250.0	BOND		SILTSTONE	20.0	810.0	
-270.0	BOND		MUDSTONE	10.0	830.0	
-280.0	BOND		LIMESTONE & SHALE	8.0	840.0	
-288.0	BOND	CARTHAGE	LIMESTONE	3.0	848.0	OFF GAMMA LOG 848'-1105'

-291.0	MODESTO	NEW HAVEN	BLACK SHALE	5.0	851.0	
-296.0	MODESTO		UNCLASSIFIED	31.0	856.0	
-327.0	MODESTO		BLACK SHALE	2.0	887.0	
-329.0	MODESTO		UNCLASSIFIED	41.0	889.0	
-370.0	MODESTO	TRIVOLI	SANDSTONE	66.0	930.0	
-436.0	MODESTO		UNCLASSIFIED	19.0	996.0	
-455.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	1015.0	
-460.0	MODESTO		UNCLASSIFIED	6.0	1020.0	
-466.0	MODESTO		BLACK SHALE	3.0	1026.0	USUALLY NOT PRESENT
-469.0	MODESTO		UNCLASSIFIED	76.0	1029.0	
-545.0	MODESTO		SILTY SHALE	5.0	1105.0	
-550.0	MODESTO		MUDSTONE	46.0	1110.0	
-596.0	CARBONDALE	DANVILLE	COAL	3.0	1156.0	OFF GAMMA LOG 1156- 1178
-599.0	CARBONDALE		UNCLASSIFIED	6.0	1159.0	
-605.0	CARBONDALE	BANKSTON FORK	LIMESTONE	4.0	1165.0	
-609.0	CARBONDALE		UNCLASSIFIED	9.0	1169.0	
-618.0	CARBONDALE		SHALE & SANDSTONE	4.5	1178.0	CORE #1 1178-1196'
-622.5	CARBONDALE		BLACK SHALE	3.2	1182.5	
-625.7	CARBONDALE		DARK SHALE & BLACK SHALE	1.5	1185.7	MINOR LS AT BASE
-627.2	CARBONDALE	JAMESTOWN	COAL	2.4	1187.2	
-629.7	CARBONDALE		BLACK SHALE	2.4	1189.7	
-632.1	CARBONDALE	BRERETON	LIMESTONE	3.9	1192.1	
-636.0	CARBONDALE	BRERETON	LIMESTONE	1.8	1196.0	CORE #2 1196-1216
-637.8	CARBONDALE	ANNA	BLACK SHALE	1.3	1197.8	
-639.1	CARBONDALE	HERRIN	COAL	6.1	1199.1	
-645.2	CARBONDALE		CLAYSTONE & SILTSTONE	2.6	1205.2	
-647.7	CARBONDALE		GRAY SHALE	8.3	1207.7	10% LS NEAR BASE
-656.0	CARBONDALE		SHALE	4.0	1216.0	
-660.0	CARBONDALE		MUDSTONE	9.7	1220.0	CORE #3 1216-1236
-669.7	CARBONDALE		PYRITE	0.2	1229.7	
-669.9	CARBONDALE	BRIAR HILL	COAL	1.8	1229.9	
-671.6	CARBONDALE		DARK SHALE & BLACK SHALE	3.9	1231.6	
-675.5	CARBONDALE		CORE LOSS	0.5	1235.5	
-676.0	CARBONDALE	TURNER MINE	CARBONACEOUS SHALE	0.2	1236.0	CORE #4 1236-1246
-676.2	CARBONDALE	TURNER MINE	CLAYSTONE & SHALE	0.3	1236.2	COALY SHALE
-676.4	CARBONDALE	SPRINGFIELD	COAL	3.4	1236.4	
-679.8	CARBONDALE		CARBONACEOUS SHALE	0.0	1239.8	
-679.9	CARBONDALE		CLAYSTONE & SILTSTONE	4.0	1239.9	
-683.9	CARBONDALE		SILTSTONE	52.1	1243.9	

MAPID: 07922768000C

VERSION: 1

PROJECT: NCRDS92

COUNTY: JASPER

TWP/RNG: 7N 9E

SECTION: 33

QUARTERS/FOOTAGES: 510' N line, 1310' W line

QUADRANGLE: ROSE HILL

LONGITUDE: -88.222668

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.007603

DATE COLLECTED: 8 / 16 / 1978

SURFACE ELEVATION (FT.): 556.0

LOGGED (FT.): 1325.1

LOG TYPE: Drillers Log

SOURCE: MOBIL OIL CO.

IG-78-12

WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-234.0			COAL	2.0	790.0	
-287.5	BOND	CARTHAGE	LIMESTONE	4.5	843.5	
-663.0	CARBONDALE	DANVILLE	COAL	2.5	1219.0	
-707.5	CARBONDALE	JAMESTOWN	COAL	3.5	1263.5	
-723.0	CARBONDALE	HERRIN	COAL	6.3	1279.0	
-754.5	CARBONDALE	BRIAR HILL	COAL	2.2	1310.5	
-764.0	CARBONDALE	SPRINGFIELD	COAL	5.1	1320.0	

MAPID: 07922859000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 33 QUARTERS/FOOTAGES: 2603' S line, 2759' W line of SW SW
 QUADRANGLE: ROSE HILL LONGITUDE: -88.217544 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.001719 DATE COLLECTED: 11 / 21 / 1978
 SURFACE ELEVATION (FT.): 553.0 LOGGED (FT.): 1307.0 LOG TYPE: Multiple log types
 SOURCE: COASTAL STATES ILJC-78-8 WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS. AND NEUTRON LOGS; NO CORES

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
553.0			CLAYSTONE & SILTSTONE	10.0	0.0	DRILLERS LOG VERY GENERALIZED
543.0	MATTOON		MUDSTONE	10.0	10.0	
533.0	MATTOON		SANDSTONE/LIMESTONE	10.0	20.0	
523.0	MATTOON		SANDSTONE	10.0	30.0	
513.0	MATTOON		SILTSTONE	30.0	40.0	
483.0	MATTOON		SANDSTONE	10.0	70.0	
473.0	MATTOON		SILTSTONE	20.0	80.0	
453.0	MATTOON		GRAY SHALE	16.0	100.0	OFF GAMMA LOG
437.0	MATTOON	FALMOUTH	BLACK SHALE	4.0	116.0	
433.0	MATTOON		SANDSTONE	20.0	120.0	
413.0	MATTOON		MUDSTONE	10.0	140.0	
403.0	MATTOON	WETWETHER	CARBONACEOUS SHALE	2.0	150.0	CB=CARBONATE OFF GAMMA LOG
401.0	MATTOON		GRAY SHALE	26.0	152.0	OFF GAMMA LOG
375.0	MATTOON	INGRAHAM	CARBONACEOUS SHALE	6.0	178.0	OFF GAMMA LOG
369.0	MATTOON		GRAY SHALE	72.0	184.0	OFF GAMMA LOG
297.0	MATTOON	SHUMWAY	LIMESTONE	2.0	256.0	OFF GAMMA LOG
295.0	MATTOON		GRAY SHALE	8.0	258.0	OFF GAMMA LOG
287.0	MATTOON	TEUTOPOLIS	BLACK SHALE	4.0	266.0	OFF GAMMA LOG
283.0	MATTOON		SHALE	40.0	270.0	
243.0	MATTOON		SILTSTONE	20.0	310.0	
223.0	MATTOON		SHALE	10.0	330.0	
213.0	MATTOON		SILTY SHALE	40.0	340.0	
173.0	MATTOON		SILTSTONE	10.0	380.0	
163.0	MATTOON		GRAY SHALE	10.0	390.0	
153.0	MATTOON		SHALE & SILTSTONE	20.0	400.0	
133.0	MATTOON		GRAY SHALE	50.0	420.0	
83.0	MATTOON		SANDSTONE	40.0	470.0	
43.0	MATTOON		GRAY SHALE	30.0	510.0	
13.0	MATTOON		CARBONACEOUS SHALE	10.0	540.0	
3.0	MATTOON		GRAY SHALE	10.0	550.0	
-7.0	MATTOON		SILTSTONE & SHALE	10.0	560.0	
-17.0	MATTOON		SILTSTONE	10.0	570.0	
-27.0	MATTOON		SILTSTONE & SHALE	60.0	580.0	
-87.0	MATTOON		SILTSTONE	30.0	640.0	
-117.0	BOND		SHALE & SILTSTONE	10.0	670.0	MVL LS. INTERVAL
-127.0	BOND		GRAY SHALE	10.0	680.0	
-137.0	BOND		CARBONACEOUS SHALE	50.0	690.0	

-187.0	BOND		BLACK SHALE & Limestone	20.0	740.0	
-207.0	BOND		GRAY SHALE	40.0	760.0	
-247.0	BOND		SILTSTONE	10.0	800.0	
-257.0	BOND		GRAY SHALE	19.0	810.0	
-276.0	BOND	CARTHAGE	Limestone	6.0	829.0	OFF GAMMA LOG
-282.0	MODESTO	NEW HAVEN	BLACK SHALE	3.0	835.0	OFF GAMMA LOG
-285.0	MODESTO		SILTSTONE	12.0	838.0	
-297.0	MODESTO		GRAY SHALE	10.0	850.0	
-307.0	MODESTO		SILTSTONE	10.0	860.0	
-317.0	MODESTO		GRAY SHALE	20.0	870.0	
-337.0	MODESTO	CHAPEL	BLACK SHALE & CLAY	10.0	890.0	
-347.0	MODESTO		GRAY SHALE	10.0	900.0	
-357.0	MODESTO		SILTSTONE/Limestone	10.0	910.0	
-367.0	MODESTO		SILTSTONE	40.0	920.0	
-407.0	MODESTO		SILTY SHALE	50.0	960.0	
-457.0	MODESTO		SANDSTONE	10.0	1010.0	
-467.0	MODESTO		UNCLASSIFIED	154.5	1020.0	NO SAMPLES FROM 1020-1307 W.FR. GONE
-621.5	CARBONDALE	DANVILLE	COAL	3.5	1174.5	
-625.0	CARBONDALE		UNCLASSIFIED	45.7	1178.0	
-670.7	CARBONDALE	JAMESTOWN	COAL	3.0	1223.7	
-673.7	CARBONDALE		UNCLASSIFIED	2.3	1226.7	
-676.0	CARBONDALE	BRERETON	Limestone	3.5	1229.0	
-679.5	CARBONDALE	ANNA	BLACK SHALE	4.0	1232.5	
-683.5	CARBONDALE	HERRIN	COAL	6.5	1236.5	
-690.0	CARBONDALE		UNCLASSIFIED	23.0	1243.0	
-713.0	CARBONDALE	BRIAR HILL	COAL	2.0	1266.0	
-715.0	CARBONDALE		UNCLASSIFIED	6.0	1268.0	
-721.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	1274.0	
-723.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1276.0	
-727.0	CARBONDALE		UNCLASSIFIED	27.0	1280.0	

MAPID: 07900555000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 34 QUARTERS/FOOTAGES: SW SE NW

QUADRANGLE: ROSE HILL LONGITUDE: -88.202387 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.00263 DATE COLLECTED:

SURFACE ELEVATION (FT.): 561.0 LOGGED (FT.): 1473.0 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	
-281.0	BOND	CARTHAGE	LIMESTONE	6.0	842.0	
-368.0	MODESTO	TRIVOLI	SANDSTONE	56.0	929.0	
-473.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	1034.0	
-594.0	CARBONDALE	DANVILLE	COAL	2.0	1155.0	
-644.0	CARBONDALE	HERRIN	COAL	5.0	1205.0	
-677.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1238.0	
-749.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1310.0	
-889.0	CARBONDALE	COLCHESTER	COAL	-	1450.0	
-906.0	SPOON	SEELYVILLE	COAL	6.0	1467.0	

MAPID: 07923560000C VERSION: 1 PROJECT: AVAIL

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 34 QUARTERS/FOOTAGES: 330' N line, 330' E line of SE NW

QUADRANGLE: NEWTON LONGITUDE: -88.200065 GEOLOGIST: CHENOWITH

CONFIDENTIAL: N LATITUDE: 39.004399 DATE COLLECTED: 7 / 7 / 1981

SURFACE ELEVATION (FT.): 562.0 LOGGED (FT.): 3123.0 LOG TYPE: Induction Log

SOURCE: SHAKESPEARE OIL CO., INC. WELL TYPE: Oil and Gas Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-638.0	CARBONDALE	HERRIN	COAL	5.0	1200.0	WITH PARTING
-900.0	SPOON	SEELYVILLE	COAL	6.0	1462.0	WITH PARTING (> 1' THICK?)

MAPID: 07900198000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 35 QUARTERS/FOOTAGES: 660' N line, 660' W line

QUADRANGLE: ROSE HILL LONGITUDE: -88.187137 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.00704 DATE COLLECTED:

SURFACE ELEVATION (FT.): 528.0 LOGGED (FT.): 1444.0 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
-265.0	BOND	CARTHAGE	LIMESTONE	6.0	793.0
-436.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	964.0
-593.0	CARBONDALE	DANVILLE	COAL	3.5	1121.0
-640.0	CARBONDALE	HERRIN	COAL	4.0	1168.0
-674.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1202.0
-748.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1276.0
-892.0	CARBONDALE	COLCHESTER	COAL	-	1420.0
-910.0	SPOON	SEELYVILLE	COAL	6.0	1438.0

MAPID: 07900198000C VERSION: 2 PROJECT: CONTROL

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 35 QUARTERS/FOOTAGES: 660' N line, 660' W line

QUADRANGLE: ROSE HILL LONGITUDE: -88.187137 GEOLOGIST: HINES

CONFIDENTIAL: N LATITUDE: 39.00704 DATE COLLECTED:

SURFACE ELEVATION (FT.): LOGGED (FT.): 3087.0 LOG TYPE: Survey Sample Study

SOURCE: BIG CHIEF DRILLING 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: 07924692000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 9E SECTION: 35 QUARTERS/FOOTAGES: 396' N line, 75' W line

QUADRANGLE: ROSE HILL LONGITUDE: -88.189208 GEOLOGIST: SROKA

CONFIDENTIAL: N LATITUDE: 39.007737 DATE COLLECTED: 10 / 16 / 1979

SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 1260.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL IG7935-16C WELL TYPE: Coal Test

COMMENT: GAMMA, RESIST, DENS, DRILL LOG, CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-461.0	MODESTO		SHALE	149.0	1001.0	SANDY TO 1050
-610.0	CARBONDALE	DANVILLE	COAL	3.0	1150.0	
-613.0	CARBONDALE		SHALE	3.5	1153.0	
-616.5	CARBONDALE	BANKSTON FORK	LIMESTONE	2.5	1156.5	
-619.0	CARBONDALE		CALCAREOUS SHALE	11.0	1159.0	
-630.0	CARBONDALE		SHALE	15.0	1170.0	
-645.0	CARBONDALE	CONANT	LIMESTONE	1.0	1185.0	
540.0			UNCONSOLIDATED	16.0	0.0	
524.0	MATTOON		SILTY SHALE	4.0	16.0	
520.0	MATTOON		SANDY SHALE	41.0	20.0	
479.0	MATTOON		LIMESTONE	0.5	61.0	
478.5	MATTOON		SHALE	19.5	61.5	
459.0	MATTOON		CALCAREOUS SHALE	2.0	81.0	
457.0	MATTOON		SHALE	6.0	83.0	
451.0	MATTOON		LIMESTONE	1.2	89.0	
449.8	MATTOON		SANDSTONE/SHALE	8.8	90.2	
441.0	MATTOON		SANDY SHALE	21.0	99.0	
420.0	MATTOON		SHALE	6.0	120.0	
414.0	MATTOON		SHALE	4.0	126.0	
410.0	MATTOON		SHALE	14.0	130.0	
396.0	MATTOON		LIMESTONE	0.5	144.0	
395.5	MATTOON		BLACK SHALE	0.5	144.5	
395.0	MATTOON		SANDY SHALE	20.0	145.0	
375.0	MATTOON		SANDY LIMESTONE	1.5	165.0	
373.5	MATTOON		SANDY SHALE	13.5	166.5	
360.0	MATTOON		SHALE	15.0	180.0	
344.0	MATTOON		SANDY SHALE	21.0	196.0	
323.0	MATTOON		LIMESTONE	3.5	217.0	
319.5	MATTOON		SHALE	2.5	220.5	
317.0	MATTOON		LIMESTONE	3.0	223.0	
314.0	MATTOON		SHALE	8.0	226.0	
306.0	MATTOON		BLACK SHALE	2.0	234.0	
304.0	MATTOON		SHALE	21.0	236.0	
283.0	MATTOON		SANDY SHALE	111.0	257.0	
172.0	MATTOON		SANDSTONE	30.0	368.0	
142.0	MATTOON		LIMESTONE	3.0	398.0	
139.0	MATTOON		SANDSTONE	17.0	401.0	
122.0	MATTOON		SHALY SANDSTONE	7.0	418.0	
115.0	MATTOON		SANDY SHALE	22.0	425.0	

93.0	MATTOON		SHALY SANDSTONE	8.0	447.0	
85.0	MATTOON		SANDY SHALE	6.0	455.0	
79.0	MATTOON		SHALY SANDSTONE	36.0	461.0	
43.0	MATTOON		SHALE	20.0	497.0	
23.0	MATTOON		BLACK SHALE	1.0	517.0	
22.0	MATTOON		SHALE	4.0	518.0	
18.0	MATTOON		SHALY SANDSTONE	21.0	522.0	
-3.0	MATTOON		LIMESTONE	6.5	543.0	
-9.5	MATTOON		SANDSTONE	10.5	549.5	
-20.0	MATTOON		SHALE	22.0	560.0	
-42.0	MATTOON		LIMESTONE	1.0	582.0	
-43.0	MATTOON		SHALE	8.0	583.0	
-51.0	MATTOON		SANDSTONE	11.0	591.0	
-62.0	MATTOON		SANDY SHALE	8.0	602.0	
-70.0	MATTOON		SHALY SANDSTONE	32.0	610.0	
-102.0	MATTOON		SHALE	4.0	642.0	
-106.0	MATTOON		CALCAREOUS SHALE	5.0	646.0	
-111.0	MATTOON		SHALE	4.0	651.0	
-115.0	BOND	MILLERSVILLE	SHALY LIMESTONE	3.5	655.0	
-118.5	BOND		SHALE	4.5	658.5	
-123.0	BOND		BLACK SHALE	2.0	663.0	
-125.0	BOND		SHALE	14.0	665.0	
-139.0	BOND	BRISTOL HILL	COAL	1.0	679.0	
-140.0	BOND		SHALE	6.5	680.0	
-146.5	BOND		SHALY LIMESTONE	3.5	686.5	
-150.0	BOND		SANDY SHALE	35.5	690.0	
-185.5	BOND		LIMESTONE	1.5	725.5	
-187.0	BOND		SHALE	1.0	727.0	
-188.0	BOND	WITT	COAL	2.0	728.0	
-190.0	BOND		SHALE	11.0	730.0	
-201.0	BOND		SANDY SHALE	28.5	741.0	
-229.5	BOND	FLANNIGAN	COAL	1.5	769.5	
-231.0	BOND		SHALE	3.0	771.0	
-234.0	BOND		SANDY SHALE	3.0	774.0	
-237.0	BOND		LIMESTONE	0.5	777.0	
-237.5	BOND		SANDY SHALE	37.5	777.5	
-275.0	BOND	CARTHAGE	LIMESTONE	3.5	815.0	TAN/BUFF
-278.5	MODESTO	NEW HAVEN	BLACK SHALE	6.5	818.5	WITH COAL
-285.0	MODESTO		SANDY SHALE	19.0	825.0	
-304.0	MODESTO		SHALE	10.0	844.0	
-314.0	MODESTO		DARK SHALE & LIMESTONE	23.0	854.0	
-337.0	MODESTO		BLACK SHALE	2.0	877.0	
-339.0	MODESTO		DARK SHALE & LIMESTONE	11.0	879.0	
-350.0	MODESTO		SANDY SHALE	30.0	890.0	
-380.0	MODESTO		SHALE	44.0	920.0	
-424.0	MODESTO		BLACK SHALE	2.0	964.0	

-426.0	MODESTO		SHALE	3.0	966.0	
-429.0	MODESTO		LIMESTONE	2.0	969.0	
-431.0	MODESTO	CHAPEL	COAL	2.0	971.0	
-433.0	MODESTO		LIMESTONE	5.0	973.0	SANDY/SHALEY
-438.0	MODESTO		SHALE	9.0	978.0	
-447.0	MODESTO	WEST FRANKLIN	LIMESTONE W/ SHALE	11.0	987.0	
-458.0	MODESTO	WEST FRANKLIN	SHALE	1.0	998.0	
-459.0	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	999.0	TOP SANDY
-646.0	CARBONDALE	JAMESTOWN	COAL	3.6	1186.0	CORED TO 1209.5
-649.6	CARBONDALE		SHALE	1.8	1189.6	CALCAREOUS BASE
-651.4	CARBONDALE	BRERETON	FOSSILIFEROUS LIMESTONE	6.8	1191.4	
-658.2	CARBONDALE	ANNA	BLACK SHALE	3.4	1198.2	LOSS 1199.3-1199.5
-661.5	CARBONDALE	HERRIN	COAL	6.2	1201.5	PYRITE AND SHALE LAYERS (.05 THICK)
-667.7	CARBONDALE		UNDERCLAY	1.8	1207.7	
-669.5	CARBONDALE		SHALE	15.5	1209.5	
-685.0	CARBONDALE	BRIAR HILL	COAL	2.3	1225.0	
-687.3	CARBONDALE		SHALE	3.7	1227.3	
-691.0	CARBONDALE	ST. DAVID	LIMESTONE	5.4	1231.0	
-696.4	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	1236.4	
-697.7	CARBONDALE	SPRINGFIELD	BONE COAL	4.5	1237.7	
-702.2	CARBONDALE		UNDERCLAY	1.6	1242.2	
-703.8	CARBONDALE		SHALE	16.2	1243.8	

MAPID: 07900316000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 7N 9E **SECTION:** 36 **QUARTERS/FOOTAGES:** NE SW NE
QUADRANGLE: ROSE HILL **LONGITUDE:** -88.157799 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.0049 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 486.0 **LOGGED (FT.):** 1391.5 **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
-241.0	BOND	CARTHAGE	LIMESTONE	6.0	727.0
-414.0	MODESTO	WEST FRANKLIN	LIMESTONE	13.0	900.0
-575.0	CARBONDALE	DANVILLE	COAL	3.0	1061.0
-626.0	CARBONDALE	HERRIN	COAL	-	1112.0
-659.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1145.0
-736.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1222.0
-879.0	CARBONDALE	COLCHESTER	COAL	-	1365.0
-900.0	SPOON	SEELYVILLE	COAL	5.5	1386.0

MAPID: 07900827000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 1 QUARTERS/FOOTAGES: SW NW SE
QUADRANGLE: YALE LONGITUDE: -88.046927 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.073062 DATE COLLECTED:
SURFACE ELEVATION (FT.): 535.0 LOGGED (FT.): 1177.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-29.0	BOND	CARTHAGE	LIMESTONE	4.0	564.0
-215.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	750.0
-342.0	CARBONDALE	DANVILLE	COAL	2.0	877.0
-371.0	CARBONDALE	HERRIN	COAL	3.5	906.0
-419.0	CARBONDALE	SPRINGFIELD	COAL	3.0	954.0
-485.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1020.0
-601.0	CARBONDALE	COLCHESTER	COAL	-	1136.0
-637.0	SPOON	SEELYVILLE	COAL	5.0	1172.0

MAPID: 07901074000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 2 QUARTERS/FOOTAGES: NE NW SE
QUADRANGLE: YALE LONGITUDE: -88.063538 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.074839 DATE COLLECTED:
SURFACE ELEVATION (FT.): 530.0 LOGGED (FT.): 1213.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-72.0	BOND	CARTHAGE	LIMESTONE	4.0	602.0
-398.0	CARBONDALE	DANVILLE	COAL	3.0	928.0
-427.0	CARBONDALE	HERRIN	COAL	4.0	957.0
-539.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1069.0
-652.0	CARBONDALE	COLCHESTER	COAL	-	1182.0
-678.0	SPOON	SEELYVILLE	COAL	5.0	1208.0

MAPID: 07901187000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 5 QUARTERS/FOOTAGES: SW SE
QUADRANGLE: YALE LONGITUDE: -88.120296 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.070657 DATE COLLECTED:
SURFACE ELEVATION (FT.): 547.0 LOGGED (FT.): 1327.0 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	BOND	CARTHAGE	LIMESTONE	5.0	711.0
-358.0	MODESTO	WEST FRANKLIN	LIMESTONE	17.0	905.0
-490.0	CARBONDALE	DANVILLE	COAL	3.0	1037.0
-505.0	CARBONDALE	HERRIN	COAL	2.5	1052.0
-555.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1102.0
-628.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1175.0
-756.0	CARBONDALE	COLCHESTER	COAL	-	1303.0
-775.0	SPOON	SEELYVILLE	COAL	5.0	1322.0

MAPID: 07900217000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 330' W line of NE
QUADRANGLE: ROSE HILL LONGITUDE: -88.141045 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.076881 DATE COLLECTED:
SURFACE ELEVATION (FT.): 557.0 LOGGED (FT.): 1342.0 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
-159.0	BOND	CARTHAGE	LIMESTONE	6.0	716.0
-373.0	MODESTO	WEST FRANKLIN	LIMESTONE	14.0	930.0
-497.0	CARBONDALE	DANVILLE	COAL	3.0	1054.0
-532.0	CARBONDALE	HERRIN	COAL	-	1089.0
-561.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1118.0
-631.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1188.0
-755.0	CARBONDALE	COLCHESTER	COAL	-	1312.0
-780.0	SPOON	SEELYVILLE	COAL	5.0	1337.0

MAPID: 07900217000C

VERSION: 2

PROJECT: CONTROL

COUNTY: JASPER

TWP/RNG: 7N 10E

SECTION: 6

QUARTERS/FOOTAGES: 330' S line, 330' W line of NE

QUADRANGLE: ROSE HILL

LONGITUDE: -88.141045

GEOLOGIST: HINES

CONFIDENTIAL: N

LATITUDE: 39.076881

DATE COLLECTED:

SURFACE ELEVATION (FT.):

LOGGED (FT.): 2799.0

LOG TYPE: Survey Sample Study

SOURCE: TEXAS COMPANY, THE

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: 07923259000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 6 QUARTERS/FOOTAGES: 1785' S line, 72' W line

QUADRANGLE: ROSE HILL LONGITUDE: -88.152337 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.073136 DATE COLLECTED: 7 / 10 / 1980

SURFACE ELEVATION (FT.): 562.0 LOGGED (FT.): 1415.0 LOG TYPE: Multiple log types

SOURCE: MOBIL OIL CORP. WELL TYPE: Coal Test

COMMENT: GAMMA, DENS, RESIST, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
562.0			UNCONSOLIDATED	28.0	0.0
534.0	MATTOON		GRAY SHALE	28.0	28.0
506.0	MATTOON	FALMOUTH	BLACK SHALE	2.0	56.0
504.0	MATTOON		GRAY SHALE	3.0	58.0
501.0	MATTOON		LIMESTONE	5.0	61.0
496.0	MATTOON		GRAY SHALE	6.0	66.0
490.0	MATTOON		SANDSTONE	14.0	72.0
476.0	MATTOON		SHALE	14.5	86.0
461.5	MATTOON	BOGOTA	LIMESTONE	5.5	100.5
456.0	MATTOON		GRAY SHALE	4.0	106.0
452.0	MATTOON	INGRAHAM	BLACK SHALE	8.0	110.0
444.0	MATTOON		GRAY SHALE	40.0	118.0
404.0	MATTOON		SANDSTONE	2.0	158.0
402.0	MATTOON		GRAY SHALE	16.0	160.0
386.0	MATTOON		SANDSTONE	2.0	176.0
384.0	MATTOON		GRAY SHALE	6.5	178.0
377.5	MATTOON	SHUMWAY	LIMESTONE	1.5	184.5
376.0	MATTOON	TEUTOPOLIS	GRAY SHALE	2.0	186.0
374.0	MATTOON	TEUTOPOLIS	BLACK SHALE	2.0	188.0
372.0	MATTOON		SHALE	28.0	190.0
344.0	MATTOON		LIMESTONE	1.5	218.0
342.5	MATTOON		SANDSTONE	16.5	219.5
326.0	MATTOON		SANDY SHALE	62.0	236.0
264.0	MATTOON		SANDSTONE	112.0	298.0
152.0	MATTOON		GRAY SHALE	20.0	410.0
132.0	MATTOON		SANDSTONE	6.0	430.0
126.0	MATTOON		GRAY SHALE	48.5	436.0
77.5	MATTOON		LIMESTONE	4.5	484.5
73.0	MATTOON		SANDSTONE	13.0	489.0
60.0	MATTOON		GRAY SHALE	8.0	502.0
52.0	MATTOON		BLACK SHALE	3.0	510.0
49.0	MATTOON		SANDSTONE	3.0	513.0
46.0	MATTOON		GRAY SHALE	8.0	516.0
38.0	MATTOON		COAL	2.0	524.0
36.0	MATTOON		GRAY SHALE	6.0	526.0
30.0	MATTOON		LIMESTONE	4.0	532.0
26.0	MATTOON		SANDSTONE	24.0	536.0
2.0	MATTOON		LIMESTONE	1.5	560.0
0.5	MATTOON		COAL	1.0	561.5

-0.5	MATTOON		GRAY SHALE	1.5	562.5	
-2.0	BOND	MILLERSVILLE	LIMESTONE	8.0	564.0	
-10.0	BOND		GRAY SHALE	129.0	572.0	
-139.0	BOND		SANDSTONE	23.0	701.0	
-162.0	BOND		GRAY SHALE	17.5	724.0	
-179.5	BOND	CARTHAGE	LIMESTONE	5.0	741.5	
-184.5	MODESTO	NEW HAVEN	BLACK SHALE	3.5	746.5	
-188.0	MODESTO		SHALE	20.0	750.0	
-208.0	MODESTO		LIMESTONE	2.0	770.0	
-210.0	MODESTO		GRAY SHALE	31.0	772.0	#8 COAL HORIZON
-241.0	MODESTO		SANDSTONE	1.5	803.0	
-242.5	MODESTO		LIMESTONE	2.5	804.5	
-245.0	MODESTO		SANDSTONE	53.0	807.0	
-298.0	MODESTO		GRAY SHALE	25.0	860.0	
-323.0	MODESTO		COAL	1.0	885.0	
-324.0	MODESTO		GRAY SHALE	18.0	886.0	
-342.0	MODESTO		SANDSTONE	28.0	904.0	W.FR. LS ABSENT
-370.0	MODESTO		GRAY SHALE	122.0	932.0	
-492.0	CARBONDALE	DANVILLE	COAL	4.0	1054.0	
-496.0	CARBONDALE		GRAY SHALE	20.0	1058.0	
-516.0	CARBONDALE	CONANT	LIMESTONE	2.0	1078.0	
-518.0	CARBONDALE	JAMESTOWN	COAL	2.5	1080.0	
-520.5	CARBONDALE		GRAY SHALE	4.0	1082.5	
-524.5	CARBONDALE	BRERETON	LIMESTONE	5.5	1086.5	
-530.0	CARBONDALE	ANNA	BLACK SHALE	0.5	1092.0	
-530.5	CARBONDALE	HERRIN	COAL	4.9	1092.5	CORE #1 1092.5-1100.5
-535.4	CARBONDALE		UNDERCLAY	2.4	1097.4	
-537.8	CARBONDALE		CORE LOSS	0.7	1099.8	
-538.5	CARBONDALE		GRAY SHALE	11.5	1100.5	
-550.0	CARBONDALE		LIMESTONE	0.5	1112.0	
-550.5	CARBONDALE		GRAY SHALE	8.0	1112.5	
-558.5	CARBONDALE	BRIAR HILL	COAL	2.5	1120.5	
-561.0	CARBONDALE		GRAY SHALE	3.0	1123.0	
-564.0	CARBONDALE	ST. DAVID	LIMESTONE	0.8	1126.0	
-564.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	1126.8	
-565.5	CARBONDALE	SPRINGFIELD	COAL	5.0	1127.5	
-570.5	CARBONDALE		GRAY SHALE	2.5	1132.5	
-573.0	CARBONDALE		LIMESTONE	1.0	1135.0	
-574.0	CARBONDALE		GRAY SHALE	63.4	1136.0	
-637.4	CARBONDALE	HANOVER	LIMESTONE	0.6	1199.4	
-638.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	1200.0	
-640.0	CARBONDALE		GRAY SHALE	13.5	1202.0	
-653.5	CARBONDALE		LIMESTONE	2.5	1215.5	
-656.0	CARBONDALE		GRAY SHALE	76.0	1218.0	
-732.0	CARBONDALE	SURVANT - UPPER	COAL	1.0	1294.0	
-733.0	CARBONDALE		GRAY SHALE	37.5	1295.0	
-770.5	CARBONDALE	SURVANT - LOWER	COAL	1.0	1332.5	
-771.5	CARBONDALE		GRAY SHALE	0.5	1333.5	

-772.0	CARBONDALE		LIMESTONE	1.0	1334.0	OAK GROVE LS
-773.0	CARBONDALE	COLCHESTER	COAL	3.0	1335.0	
-776.0	SPOON		GRAY SHALE	10.0	1338.0	
-786.0	SPOON	SEELYVILLE	COAL	0.5	1348.0	
-786.5	SPOON	SEELYVILLE	COAL	2.5	1348.5	CORE #2 1348.5-1363.5
-789.0	SPOON	SEELYVILLE	BLACK SHALE	0.2	1351.0	
-789.2	SPOON	SEELYVILLE	COAL	1.1	1351.2	
-790.3	SPOON	SEELYVILLE	PYRITE & SHALE	0.1	1352.3	
-790.4	SPOON	SEELYVILLE	COAL	0.3	1352.4	
-790.7	SPOON	SEELYVILLE	GRAY SHALE	1.1	1352.7	
-791.8	SPOON	SEELYVILLE	COAL	0.2	1353.8	
-792.0	SPOON		UNDERCLAY	3.0	1354.0	
-795.0	SPOON		SANDSTONE	3.2	1357.0	
-798.2	SPOON		SANDSTONE/SHALE	1.3	1360.2	
-799.5	SPOON		SILTSTONE	0.6	1361.5	
-800.1	SPOON		UNDERCLAY	0.9	1362.1	
-801.0	SPOON		LIMESTONE	0.5	1363.0	
-801.5	SPOON		LIMESTONE	0.5	1363.5	END OF CORE
-802.0	SPOON		GRAY SHALE	6.0	1364.0	
-808.0	SPOON		SANDSTONE	4.0	1370.0	
-812.0	SPOON		SHALE	6.0	1374.0	
-818.0	SPOON		SANDSTONE	1.0	1380.0	
-819.0	SPOON		GRAY SHALE	14.5	1381.0	
-833.5	SPOON		LIMESTONE	0.7	1395.5	
-834.2	SPOON		BLACK SHALE	0.8	1396.2	
-835.0	SPOON		COAL	3.0	1397.0	
-838.0	SPOON		GRAY SHALE	15.0	1400.0	

MAPID: 07900341000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 7N 10E **SECTION:** 11 **QUARTERS/FOOTAGES:** SW NE NE
QUADRANGLE: YALE **LONGITUDE:** -88.060977 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.065793 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 537.0 **LOGGED (FT.):** 1185.0 **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
-67.0	BOND	CARTHAGE	LIMESTONE	4.0	604.0
-389.0	CARBONDALE	DANVILLE	COAL	2.5	926.0
-419.0	CARBONDALE	HERRIN	COAL	4.5	956.0
-460.0	CARBONDALE	SPRINGFIELD	COAL	3.5	997.0
-528.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1065.0
-648.0	CARBONDALE	COLCHESTER	COAL	-	1185.0

MAPID: 07901205000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 12 QUARTERS/FOOTAGES: SE NE SW
QUADRANGLE: YALE LONGITUDE: -88.048953 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.058548 DATE COLLECTED:
SURFACE ELEVATION (FT.): 537.0 LOGGED (FT.): 1197.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-43.0	BOND	CARTHAGE	LIMESTONE	4.0	580.0
-363.0	CARBONDALE	DANVILLE	COAL	2.0	900.0
-396.0	CARBONDALE	HERRIN	COAL	3.0	933.0
-441.0	CARBONDALE	SPRINGFIELD	COAL	4.0	978.0
-510.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1047.0
-626.0	CARBONDALE	COLCHESTER	COAL	-	1163.0
-656.0	SPOON	SEELYVILLE	COAL	4.0	1193.0

MAPID: 07900849000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 13 QUARTERS/FOOTAGES: SW NW SE
QUADRANGLE: YALE LONGITUDE: -88.046159 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.043864 DATE COLLECTED:
SURFACE ELEVATION (FT.): 530.0 LOGGED (FT.): 1197.0 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
-62.0	BOND	CARTHAGE	LIMESTONE	3.0	592.0
-214.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	744.0
-360.0	CARBONDALE	DANVILLE	COAL	2.5	890.0
-397.0	CARBONDALE	HERRIN	COAL	4.0	927.0
-447.0	CARBONDALE	SPRINGFIELD	COAL	3.0	977.0
-514.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1044.0
-632.0	CARBONDALE	COLCHESTER	COAL	-	1162.0
-664.0	SPOON	SEELYVILLE	COAL	3.0	1194.0

MAPID: 07900289000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 14 QUARTERS/FOOTAGES: NE SW NE
QUADRANGLE: YALE LONGITUDE: -88.062687 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.049417 DATE COLLECTED:
SURFACE ELEVATION (FT.): 532.0 LOGGED (FT.): 1273.0 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
-116.0	BOND	CARTHAGE	LIMESTONE	5.0	648.0
-271.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	803.0
-420.0	CARBONDALE	DANVILLE	COAL	2.0	952.0
-456.0	CARBONDALE	HERRIN	COAL	-	988.0
-497.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1029.0
-568.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1100.0
-741.0	CARBONDALE	COLCHESTER	COAL	-	1273.0

MAPID: 07900505000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 14 QUARTERS/FOOTAGES: SE SW SE
QUADRANGLE: YALE LONGITUDE: -88.062443 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.040151 DATE COLLECTED:
SURFACE ELEVATION (FT.): 544.0 LOGGED (FT.): 1270.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-127.0	BOND	CARTHAGE	LIMESTONE	4.0	671.0
-306.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	850.0
-426.0	CARBONDALE	DANVILLE	COAL	2.5	970.0
-468.0	CARBONDALE	HERRIN	COAL	4.0	1012.0
-522.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1066.0
-578.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1122.0
-702.0	CARBONDALE	COLCHESTER	COAL	-	1246.0
-722.0	SPOON	SEELYVILLE	COAL	4.0	1266.0

MAPID: 07900330000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 15 QUARTERS/FOOTAGES: SE SE NE
QUADRANGLE: YALE LONGITUDE: -88.0767 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.047543 DATE COLLECTED:
SURFACE ELEVATION (FT.): 490.0 LOGGED (FT.): 1226.0 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	BOND	CARTHAGE	LIMESTONE	3.0	526.0
-464.0	CARBONDALE	DANVILLE	COAL	3.5	954.0
-500.0	CARBONDALE	HERRIN	COAL	4.0	990.0
-539.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1029.0
-610.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1100.0
-736.0	CARBONDALE	COLCHESTER	COAL	-	1226.0

MAPID: 07900008000C VERSION: 1 PROJECT: CONTROL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 16 QUARTERS/FOOTAGES: 660' S line, 330' E line of SW SW
QUADRANGLE: YALE LONGITUDE: -88.108983 GEOLOGIST: HINES
CONFIDENTIAL: N LATITUDE: 39.04145 DATE COLLECTED:
SURFACE ELEVATION (FT.): LOGGED (FT.): 2898.0 LOG TYPE: Survey Sample Study
SOURCE: OEXNER DVLPMT CO 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: 07901048000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 16 QUARTERS/FOOTAGES: SW NE SW
QUADRANGLE: YALE LONGITUDE: -88.106788 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.044135 DATE COLLECTED:
SURFACE ELEVATION (FT.): 532.0 LOGGED (FT.): 1340.0 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
-170.0	BOND	CARTHAGE	LIMESTONE	5.0	702.0
-511.0	CARBONDALE	DANVILLE	COAL	2.5	1043.0
-545.0	CARBONDALE	HERRIN	COAL	2.0	1077.0
-583.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1115.0
-651.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1183.0
-784.0	CARBONDALE	COLCHESTER	COAL	-	1316.0
-804.0	SPOON	SEELYVILLE	COAL	4.0	1336.0

MAPID: 07901129000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 20 QUARTERS/FOOTAGES: NW NE NE
QUADRANGLE: YALE LONGITUDE: -88.115784 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.038732 DATE COLLECTED:
SURFACE ELEVATION (FT.): 532.0 LOGGED (FT.): 1324.0 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
-192.0	BOND	CARTHAGE	LIMESTONE	5.0	724.0
-518.0	CARBONDALE	DANVILLE	COAL	2.0	1050.0
-554.0	CARBONDALE	HERRIN	COAL	4.0	1086.0
-601.0	CARBONDALE	SPRINGFIELD	COAL	-	1133.0
-658.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1190.0
-792.0	CARBONDALE	COLCHESTER	COAL	-	1324.0

MAPID: 07901054000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 21 QUARTERS/FOOTAGES: SE SW SW
QUADRANGLE: YALE LONGITUDE: -88.108457 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.025875 DATE COLLECTED:
SURFACE ELEVATION (FT.): 529.0 LOGGED (FT.): 1334.5 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
-183.0	BOND	CARTHAGE	LIMESTONE	5.0	712.0
-497.0	CARBONDALE	DANVILLE	COAL	2.0	1026.0
-533.0	CARBONDALE	HERRIN	COAL	4.5	1062.0
-571.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1100.0
-641.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1170.0
-777.0	CARBONDALE	COLCHESTER	COAL	-	1306.0
-801.0	SPOON	SEELYVILLE	COAL	4.5	1330.0

MAPID: 07901064000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 21 QUARTERS/FOOTAGES: SE NE NW
QUADRANGLE: YALE LONGITUDE: -88.104231 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.036835 DATE COLLECTED:
SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 1286.0 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	BOND	CARTHAGE	LIMESTONE	3.0	670.0
-513.0	CARBONDALE	DANVILLE	COAL	2.5	1013.0
-545.0	CARBONDALE	HERRIN	COAL	5.0	1045.0
-583.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1083.0
-650.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0
-786.0	CARBONDALE	COLCHESTER	COAL	-	1286.0

MAPID: 07901782000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 22 QUARTERS/FOOTAGES: NE NW SE
QUADRANGLE: YALE LONGITUDE: -88.080862 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.031166 DATE COLLECTED:
SURFACE ELEVATION (FT.): 541.0 LOGGED (FT.): 1296.0 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	BOND	CARTHAGE	LIMESTONE	7.0	712.0
-481.0	CARBONDALE	DANVILLE	COAL	3.0	1022.0
-521.0	CARBONDALE	HERRIN	COAL	4.0	1062.0
-562.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1103.0
-632.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1173.0
-755.0	CARBONDALE	COLCHESTER	COAL	-	1296.0

MAPID: 07900364000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 23 QUARTERS/FOOTAGES: SW SW NE
QUADRANGLE: YALE LONGITUDE: -88.064576 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.032863 DATE COLLECTED:
SURFACE ELEVATION (FT.): 536.0 LOGGED (FT.): 1240.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-106.0	BOND	CARTHAGE	LIMESTONE	4.0	642.0
-410.0	CARBONDALE	DANVILLE	COAL	2.0	946.0
-450.0	CARBONDALE	HERRIN	COAL	3.5	986.0
-488.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1024.0
-557.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1093.0
-675.0	CARBONDALE	COLCHESTER	COAL	-	1211.0
-700.0	SPOON	SEELYVILLE	COAL	4.0	1236.0

MAPID: 07901800000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 24 QUARTERS/FOOTAGES: NW NW SE
QUADRANGLE: YALE LONGITUDE: -88.045827 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.031032 DATE COLLECTED:
SURFACE ELEVATION (FT.): 527.0 LOGGED (FT.): 1208.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-85.0	BOND	CARTHAGE	LIMESTONE	3.0	612.0
-370.0	CARBONDALE	DANVILLE	COAL	2.5	897.0
-415.0	CARBONDALE	HERRIN	COAL	3.0	942.0
-456.0	CARBONDALE	SPRINGFIELD	COAL	3.0	983.0
-532.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1059.0
-651.0	CARBONDALE	COLCHESTER	COAL	-	1178.0
-676.0	SPOON	SEELYVILLE	COAL	5.0	1203.0

MAPID: 07900506000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 25 QUARTERS/FOOTAGES: SE NE SW
QUADRANGLE: YALE LONGITUDE: -88.047829 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.014695 DATE COLLECTED:
SURFACE ELEVATION (FT.): 517.0 LOGGED (FT.): 1223.0 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	BOND	CARTHAGE	LIMESTONE	3.0	612.0
-280.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	797.0
-392.0	CARBONDALE	DANVILLE	COAL	-	909.0
-440.0	CARBONDALE	HERRIN	COAL	3.0	957.0
-485.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1002.0
-563.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1080.0
-682.0	CARBONDALE	COLCHESTER	COAL	-	1199.0
-703.0	SPOON	SEELYVILLE	COAL	3.0	1220.0

MAPID: 07901804000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 26 QUARTERS/FOOTAGES: NE NW SE
QUADRANGLE: YALE LONGITUDE: -88.061827 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.016573 DATE COLLECTED:
SURFACE ELEVATION (FT.): 531.0 LOGGED (FT.): 1228.5 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	BOND	CARTHAGE	LIMESTONE	5.0	620.0
-386.0	CARBONDALE	DANVILLE	COAL	-	917.0
-435.0	CARBONDALE	HERRIN	COAL	3.5	966.0
-473.0	CARBONDALE	SPRINGFIELD	COAL	-	1004.0
-549.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1080.0
-659.0	CARBONDALE	COLCHESTER	COAL	-	1190.0
-693.0	SPOON	SEELYVILLE	COAL	4.5	1224.0

MAPID: 07901189000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 27 QUARTERS/FOOTAGES: NE NE SW
QUADRANGLE: YALE LONGITUDE: -88.085069 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.016739 DATE COLLECTED:
SURFACE ELEVATION (FT.): 525.0 LOGGED (FT.): 1275.0 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
-153.0	BOND	CARTHAGE	LIMESTONE	6.0	678.0
-469.0	CARBONDALE	DANVILLE	COAL	-	994.0
-511.0	CARBONDALE	HERRIN	COAL	4.0	1036.0
-548.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1073.0
-625.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1150.0
-750.0	CARBONDALE	COLCHESTER	COAL	-	1275.0

MAPID: 07901833000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 28 QUARTERS/FOOTAGES: NE NE SW
QUADRANGLE: YALE LONGITUDE: -88.103607 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.016772 DATE COLLECTED:
SURFACE ELEVATION (FT.): 532.0 LOGGED (FT.): 1348.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-202.0	BOND	CARTHAGE	LIMESTONE	6.0	734.0
-360.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	892.0
-506.0	CARBONDALE	DANVILLE	COAL	1.5	1038.0
-543.0	CARBONDALE	HERRIN	COAL	5.0	1075.0
-583.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1115.0
-653.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1185.0
-796.0	CARBONDALE	COLCHESTER	COAL	-	1328.0
-811.0	SPOON	SEELYVILLE	COAL	5.0	1343.0

MAPID: 07900179000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 29 QUARTERS/FOOTAGES: 660' S line, 330' E line of NW NE
QUADRANGLE: YALE LONGITUDE: -88.117634 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.023196 DATE COLLECTED:
SURFACE ELEVATION (FT.): 501.0 LOGGED (FT.): 1330.0 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
-209.0	BOND	CARTHAGE	LIMESTONE	6.0	710.0
-534.0	CARBONDALE	DANVILLE	COAL	2.5	1035.0
-571.0	CARBONDALE	HERRIN	COAL	4.0	1072.0
-608.0	CARBONDALE	SPRINGFIELD	COAL	-	1109.0
-682.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1183.0
-829.0	CARBONDALE	COLCHESTER	COAL	-	1330.0

MAPID: 07900557000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 30 QUARTERS/FOOTAGES: NE NE SW
QUADRANGLE: ROSE HILL LONGITUDE: -88.142426 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.016447 DATE COLLECTED:
SURFACE ELEVATION (FT.): 528.0 LOGGED (FT.): 1421.5 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
-234.0	BOND	CARTHAGE	LIMESTONE	4.0	762.0
-434.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	962.0
-568.0	CARBONDALE	DANVILLE	COAL	2.0	1096.0
-613.0	CARBONDALE	HERRIN	COAL	4.0	1141.0
-652.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1180.0
-727.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1255.0
-863.0	CARBONDALE	COLCHESTER	COAL	-	1391.0
-890.0	SPOON	SEELYVILLE	COAL	3.5	1418.0

MAPID: 07901835000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 31 QUARTERS/FOOTAGES: NE SW NE
QUADRANGLE: ROSE HILL LONGITUDE: -88.136952 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.00572 DATE COLLECTED:
SURFACE ELEVATION (FT.): 479.0 LOGGED (FT.): 1348.0 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
-218.0	BOND	CARTHAGE	LIMESTONE	5.0	697.0
-381.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	860.0
-543.0	CARBONDALE	DANVILLE	COAL	1.5	1022.0
-593.0	CARBONDALE	HERRIN	COAL	2.5	1072.0
-629.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1108.0
-706.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1185.0
-849.0	CARBONDALE	COLCHESTER	COAL	-	1328.0
-864.0	SPOON	SEELYVILLE	COAL	5.0	1343.0

MAPID: 07900249000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 32 QUARTERS/FOOTAGES: SE SW NE
QUADRANGLE: YALE LONGITUDE: -88.117317 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.004086 DATE COLLECTED:
SURFACE ELEVATION (FT.): 527.0 LOGGED (FT.): 1353.0 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	BOND	CARTHAGE	LIMESTONE	6.0	704.0
-346.0	MODESTO	WEST FRANKLIN	LIMESTONE	16.0	873.0
-500.0	CARBONDALE	DANVILLE	COAL	-	1027.0
-553.0	CARBONDALE	HERRIN	COAL	-	1080.0
-586.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1113.0
-663.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1190.0
-778.0	CARBONDALE	COLCHESTER	COAL	-	1305.0
-820.0	SPOON	SEELYVILLE	COAL	6.0	1347.0

MAPID: 07901082000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 33 QUARTERS/FOOTAGES: NW SW NE
QUADRANGLE: YALE LONGITUDE: -88.101029 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.005899 DATE COLLECTED:
SURFACE ELEVATION (FT.): 537.0 LOGGED (FT.): 1331.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-161.0	BOND	CARTHAGE	LIMESTONE	5.0	698.0
-323.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	860.0
-470.0	CARBONDALE	DANVILLE	COAL	2.0	1007.0
-523.0	CARBONDALE	HERRIN	COAL	-	1060.0
-556.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1093.0
-635.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1172.0
-752.0	CARBONDALE	COLCHESTER	COAL	-	1289.0
-790.0	SPOON	SEELYVILLE	COAL	4.0	1327.0

MAPID: 07900252000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 34 QUARTERS/FOOTAGES: SW SW NE
QUADRANGLE: YALE LONGITUDE: -88.082434 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.004078 DATE COLLECTED:
SURFACE ELEVATION (FT.): 534.0 LOGGED (FT.): 1294.5 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
-126.0	BOND	CARTHAGE	LIMESTONE	5.0	660.0
-437.0	CARBONDALE	DANVILLE	COAL	1.0	971.0
-479.0	CARBONDALE	HERRIN	COAL	3.0	1013.0
-516.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1050.0
-610.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1144.0
-733.0	CARBONDALE	COLCHESTER	COAL	-	1267.0
-756.0	SPOON	SEELYVILLE	COAL	4.5	1290.0

MAPID: 07901858000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 35 QUARTERS/FOOTAGES: NW NE SE
QUADRANGLE: YALE LONGITUDE: -88.059091 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.002149 DATE COLLECTED:
SURFACE ELEVATION (FT.): 515.0 LOGGED (FT.): 1242.0 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
-93.0	BOND	CARTHAGE	LIMESTONE	4.0	608.0
-400.0	CARBONDALE	DANVILLE	COAL	1.5	915.0
-452.0	CARBONDALE	HERRIN	COAL	3.0	967.0
-496.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1011.0
-580.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1095.0
-703.0	CARBONDALE	COLCHESTER	COAL	-	1218.0
-723.0	SPOON	SEELYVILLE	COAL	4.0	1238.0

MAPID: 07900507000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 10E SECTION: 36 QUARTERS/FOOTAGES: 1690' S line, 1450' E line
QUADRANGLE: YALE LONGITUDE: -88.042221 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.00055 DATE COLLECTED:
SURFACE ELEVATION (FT.): 502.0 LOGGED (FT.): 1218.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-100.0	BOND	CARTHAGE	LIMESTONE	6.0	602.0
-281.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	783.0
-397.0	CARBONDALE	DANVILLE	COAL	1.5	899.0
-444.0	CARBONDALE	HERRIN	COAL	5.0	946.0
-491.0	CARBONDALE	SPRINGFIELD	COAL	3.5	993.0
-570.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1072.0
-692.0	CARBONDALE	COLCHESTER	COAL	2.0	1194.0
-711.0	SPOON	SEELYVILLE	COAL	5.0	1213.0

MAPID: 07901864000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 11E SECTION: 6 QUARTERS/FOOTAGES: SE NE SW
QUADRANGLE: YALE LONGITUDE: -88.034414 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.073179 DATE COLLECTED:
SURFACE ELEVATION (FT.): 535.0 LOGGED (FT.): 1139.0 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	BOND	CARTHAGE	LIMESTONE	4.0	528.0
-175.0	MODESTO	WEST FRANKLIN	LIMESTONE	-	710.0
-300.0	CARBONDALE	DANVILLE	COAL	3.0	835.0
-330.0	CARBONDALE	HERRIN	COAL	3.0	865.0
-383.0	CARBONDALE	SPRINGFIELD	COAL	3.0	918.0
-443.0	CARBONDALE	HOUCHIN CREEK	COAL	-	978.0
-572.0	CARBONDALE	COLCHESTER	COAL	-	1107.0
-601.0	SPOON	SEELYVILLE	COAL	3.0	1136.0

MAPID: 07901329000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 11E SECTION: 7 QUARTERS/FOOTAGES: 330' N line, 330' W line
QUADRANGLE: YALE LONGITUDE: -88.037458 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.067626 DATE COLLECTED:
SURFACE ELEVATION (FT.): 534.0 LOGGED (FT.): 1154.0 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
-11.0	BOND	CARTHAGE	LIMESTONE	4.0	545.0
-316.0	CARBONDALE	DANVILLE	COAL	2.0	850.0
-346.0	CARBONDALE	HERRIN	COAL	-	880.0
-400.0	CARBONDALE	SPRINGFIELD	COAL	3.0	934.0
-585.0	CARBONDALE	COLCHESTER	COAL	-	1119.0
-616.0	SPOON	SEELYVILLE	COAL	4.0	1150.0

MAPID: 07901865000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 11E SECTION: 18 QUARTERS/FOOTAGES: SW SE
QUADRANGLE: YALE LONGITUDE: -88.030071 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.041271 DATE COLLECTED:
SURFACE ELEVATION (FT.): 527.0 LOGGED (FT.): 1216.0 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
-71.0	BOND	CARTHAGE	LIMESTONE	4.0	598.0
-361.0	CARBONDALE	DANVILLE	COAL	2.0	888.0
-406.0	CARBONDALE	HERRIN	COAL	3.0	933.0
-455.0	CARBONDALE	SPRINGFIELD	COAL	2.5	982.0
-533.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1060.0
-655.0	CARBONDALE	COLCHESTER	COAL	-	1182.0
-685.0	SPOON	SEELYVILLE	COAL	4.0	1212.0

MAPID: 07901866000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 11E SECTION: 18 QUARTERS/FOOTAGES: 330' S line, 330' W line
QUADRANGLE: YALE LONGITUDE: -88.036689 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.040208 DATE COLLECTED:
SURFACE ELEVATION (FT.): 531.0 LOGGED (FT.): 1214.0 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	BOND	CARTHAGE	LIMESTONE	4.0	614.0
-363.0	CARBONDALE	DANVILLE	COAL	-	894.0
-425.0	CARBONDALE	HERRIN	COAL	-	956.0
-449.0	CARBONDALE	SPRINGFIELD	COAL	2.5	980.0
-529.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1060.0
-651.0	CARBONDALE	COLCHESTER	COAL	-	1182.0
-679.0	SPOON	SEELYVILLE	COAL	4.0	1210.0

MAPID: 07900504000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 11E SECTION: 19 QUARTERS/FOOTAGES: 330' N line, 330' W line
QUADRANGLE: YALE LONGITUDE: -88.036638 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.038388 DATE COLLECTED:
SURFACE ELEVATION (FT.): 531.0 LOGGED (FT.): 1211.0 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
-77.0	BOND	CARTHAGE	LIMESTONE	4.0	608.0
-367.0	CARBONDALE	DANVILLE	COAL	2.0	898.0
-412.0	CARBONDALE	HERRIN	COAL	4.5	943.0
-456.0	CARBONDALE	SPRINGFIELD	COAL	4.0	987.0
-537.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1068.0
-655.0	CARBONDALE	COLCHESTER	COAL	-	1186.0
-675.0	SPOON	SEELYVILLE	COAL	5.0	1206.0

MAPID: 07900293000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 11E SECTION: 30 QUARTERS/FOOTAGES: 330' S line, 663' W line of NE
QUADRANGLE: YALE LONGITUDE: -88.029426 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.018449 DATE COLLECTED:
SURFACE ELEVATION (FT.): 511.0 LOGGED (FT.): 1192.0 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	BOND	CARTHAGE	LIMESTONE	7.0	600.0
-385.0	CARBONDALE	DANVILLE	COAL	-	896.0
-434.0	CARBONDALE	HERRIN	COAL	3.0	945.0
-474.0	CARBONDALE	SPRINGFIELD	COAL	4.0	985.0
-565.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1076.0
-681.0	CARBONDALE	COLCHESTER	COAL	-	1192.0

MAPID: 07900987000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 11E SECTION: 30 QUARTERS/FOOTAGES: 330' N line, 660' E line
QUADRANGLE: YALE LONGITUDE: -88.02488 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.02396 DATE COLLECTED:
SURFACE ELEVATION (FT.): 518.0 LOGGED (FT.): 965.5 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
-53.0	BOND	CARTHAGE	LIMESTONE	6.0	571.0
-352.0	CARBONDALE	DANVILLE	COAL	-	870.0
-402.0	CARBONDALE	HERRIN	COAL	-	920.0
-444.0	CARBONDALE	SPRINGFIELD	COAL	3.5	962.0

MAPID: 07900389000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 11E SECTION: 31 QUARTERS/FOOTAGES: 305' N line, 330' W line of SE SE
QUADRANGLE: STE. MARIE LONGITUDE: -88.025348 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 38.998584 DATE COLLECTED:
SURFACE ELEVATION (FT.): 503.0 LOGGED (FT.): 1200.0 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
-103.0	BOND	CARTHAGE	LIMESTONE	5.0	606.0
-399.0	CARBONDALE	DANVILLE	COAL	2.0	902.0
-451.0	CARBONDALE	HERRIN	COAL	-	954.0
-500.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1003.0
-592.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1095.0
-697.0	CARBONDALE	COLCHESTER	COAL	-	1200.0

MAPID: 07900560000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 14W SECTION: 4 QUARTERS/FOOTAGES: SW SE NW
QUADRANGLE: OBLONG NORTH LONGITUDE: -87.979652 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.076925 DATE COLLECTED:
SURFACE ELEVATION (FT.): 516.0 LOGGED (FT.): 893.0 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	BOND	CARTHAGE	LIMESTONE	4.0	329.0
42.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	474.0
-86.0	CARBONDALE	DANVILLE	COAL	-	602.0
-132.0	CARBONDALE	HERRIN	COAL	-	648.0
-179.0	CARBONDALE	SPRINGFIELD	COAL	3.0	695.0
-229.0	CARBONDALE	HOUCHIN CREEK	COAL	-	745.0
-348.0	CARBONDALE	COLCHESTER	COAL	-	864.0
-372.0	SPOON	SEELYVILLE	COAL	5.0	888.0

MAPID: 07900756000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 14W SECTION: 4 QUARTERS/FOOTAGES: SE SE NE
QUADRANGLE: OBLONG NORTH LONGITUDE: -87.967719 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.076877 DATE COLLECTED:
SURFACE ELEVATION (FT.): 491.0 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
219.0	BOND	CARTHAGE	LIMESTONE	4.0	272.0
-59.0	CARBONDALE	DANVILLE	COAL	2.0	550.0
-101.0	CARBONDALE	HERRIN	COAL	2.0	592.0
-150.0	CARBONDALE	SPRINGFIELD	COAL	2.5	641.0
-203.0	CARBONDALE	HOUCHIN CREEK	COAL	-	694.0
-317.0	CARBONDALE	COLCHESTER	COAL	-	808.0
-348.0	SPOON	SEELYVILLE	COAL	5.0	839.0

MAPID: 07900312000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 14W SECTION: 5 QUARTERS/FOOTAGES: NW NW SW
QUADRANGLE: YALE LONGITUDE: -88.002851 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.07521 DATE COLLECTED:
SURFACE ELEVATION (FT.): 530.0 LOGGED (FT.): 980.5 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
-16.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	546.0
-158.0	CARBONDALE	DANVILLE	COAL	2.5	688.0
-196.0	CARBONDALE	HERRIN	COAL	2.0	726.0
-250.0	CARBONDALE	SPRINGFIELD	COAL	4.0	780.0
-296.0	CARBONDALE	HOUCHIN CREEK	COAL	-	826.0
-420.0	CARBONDALE	COLCHESTER	COAL	-	950.0
-445.0	SPOON	SEELYVILLE	COAL	5.5	975.0

MAPID: 07900559000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 14W SECTION: 6 QUARTERS/FOOTAGES: 660' S line, 330' E line of SW
QUADRANGLE: YALE LONGITUDE: -88.015031 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.070689 DATE COLLECTED:
SURFACE ELEVATION (FT.): 548.0 LOGGED (FT.): 1074.0 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
-34.0	BOND	CARTHAGE	LIMESTONE	3.0	582.0
-227.0	CARBONDALE	DANVILLE	COAL	-	775.0
-267.0	CARBONDALE	HERRIN	COAL	4.0	815.0
-318.0	CARBONDALE	SPRINGFIELD	COAL	3.0	866.0
-374.0	CARBONDALE	HOUCHIN CREEK	COAL	-	922.0
-491.0	CARBONDALE	COLCHESTER	COAL	-	1039.0
-522.0	SPOON	SEELYVILLE	COAL	4.0	1070.0

MAPID: 07900558000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 14W SECTION: 7 QUARTERS/FOOTAGES: NE NE NW
QUADRANGLE: YALE LONGITUDE: -88.015046 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.06795 DATE COLLECTED:
SURFACE ELEVATION (FT.): 549.0 LOGGED (FT.): 1072.0 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	BOND	CARTHAGE	LIMESTONE	4.0	490.0
-227.0	CARBONDALE	DANVILLE	COAL	2.0	776.0
-269.0	CARBONDALE	HERRIN	COAL	4.0	818.0
-319.0	CARBONDALE	SPRINGFIELD	COAL	3.5	868.0
-376.0	CARBONDALE	HOUCHIN CREEK	COAL	-	925.0
-491.0	CARBONDALE	COLCHESTER	COAL	-	1040.0
-518.0	SPOON	SEELYVILLE	COAL	5.0	1067.0

MAPID: 07900755000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 14W SECTION: 9 QUARTERS/FOOTAGES: NW NW NE
QUADRANGLE: OBLONG NORTH LONGITUDE: -87.97473 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.067128 DATE COLLECTED:
SURFACE ELEVATION (FT.): 502.0 LOGGED (FT.): 889.0 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	BOND	CARTHAGE	LIMESTONE	4.0	320.0
35.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	467.0
-89.0	CARBONDALE	DANVILLE	COAL	-	591.0
-138.0	CARBONDALE	HERRIN	COAL	3.0	640.0
-183.0	CARBONDALE	SPRINGFIELD	COAL	3.0	685.0
-233.0	CARBONDALE	HOUCHIN CREEK	COAL	-	735.0
-355.0	CARBONDALE	COLCHESTER	COAL	-	857.0
-382.0	SPOON	SEELYVILLE	COAL	5.0	884.0

MAPID: 07900371000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 14W SECTION: 19 QUARTERS/FOOTAGES: NE NE NE
QUADRANGLE: YALE LONGITUDE: -88.004394 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.038716 DATE COLLECTED:
SURFACE ELEVATION (FT.): 503.0 LOGGED (FT.): 1135.0 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
-17.0	BOND	CARTHAGE	LIMESTONE	4.0	520.0
-194.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	697.0
-299.0	CARBONDALE	DANVILLE	COAL	2.0	802.0
-349.0	CARBONDALE	HERRIN	COAL	3.0	852.0
-392.0	CARBONDALE	SPRINGFIELD	COAL	-	895.0
-469.0	CARBONDALE	HOUCHIN CREEK	COAL	-	972.0
-593.0	CARBONDALE	COLCHESTER	COAL	-	1096.0
-627.0	SPOON	SEELYVILLE	COAL	5.0	1130.0

MAPID: 07900395000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 7N 14W SECTION: 19 QUARTERS/FOOTAGES: 888' N line, 330' W line of SW
QUADRANGLE: YALE LONGITUDE: -88.021548 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.029793 DATE COLLECTED:
SURFACE ELEVATION (FT.): 514.0 LOGGED (FT.): 1195.5 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
-50.0	BOND	CARTHAGE	LIMESTONE	5.0	564.0
-348.0	CARBONDALE	DANVILLE	COAL	-	862.0
-396.0	CARBONDALE	HERRIN	COAL	3.5	910.0
-441.0	CARBONDALE	SPRINGFIELD	COAL	2.5	955.0
-522.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1036.0
-645.0	CARBONDALE	COLCHESTER	COAL	-	1159.0
-677.0	SPOON	SEELYVILLE	COAL	4.5	1191.0

MAPID: 07900343000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 7N 14W SECTION: 32 QUARTERS/FOOTAGES: NE NE SW
QUADRANGLE: OBLONG NORTH LONGITUDE: -87.993932 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.002047 DATE COLLECTED:
SURFACE ELEVATION (FT.): 492.0 LOGGED (FT.): 1187.0 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
-45.0	BOND	CARTHAGE	LIMESTONE	4.0	537.0
-352.0	CARBONDALE	DANVILLE	COAL	2.0	844.0
-402.0	CARBONDALE	HERRIN	COAL	-	894.0
-446.0	CARBONDALE	SPRINGFIELD	COAL	3.0	938.0
-526.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1018.0
-654.0	CARBONDALE	COLCHESTER	COAL	-	1146.0
-691.0	SPOON	SEELYVILLE	COAL	4.0	1183.0

MAPID: 07922576000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 1 QUARTERS/FOOTAGES: 330' N line, 705' W line
QUADRANGLE: WOODBURY LONGITUDE: -88.276957 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.170461 DATE COLLECTED:
SURFACE ELEVATION (FT.): 592.0 LOGGED (FT.): 1423.0 LOG TYPE: Nuclear Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT #3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-235.0	BOND	CARTHAGE	LIMESTONE	6.0	827.0
-394.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	986.0
-539.0	CARBONDALE	DANVILLE	COAL	3.5	1131.0
-555.0	CARBONDALE	JAMESTOWN	COAL	2.0	1147.0
-569.0	CARBONDALE	HERRIN	COAL	5.5	1161.0
-596.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1188.0
-678.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1270.0
-809.0	CARBONDALE	COLCHESTER	COAL	-	1401.0
-826.0	SPOON	SEELYVILLE	COAL	5.0	1418.0

MAPID: 07923260000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 2 QUARTERS/FOOTAGES: 87' N line, 570' E line
 QUADRANGLE: WOODBURY LONGITUDE: -88.281475 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.171113 DATE COLLECTED: 6 / 25 / 1980
 SURFACE ELEVATION (FT.): 576.0 LOGGED (FT.): 1460.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG80-2-10C WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS, RESIST, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
576.0			UNCONSOLIDATED	22.0	0.0	
554.0	MATTOON		GRAY SHALE	2.0	22.0	
552.0	MATTOON		SANDSTONE	13.0	24.0	
539.0	MATTOON		GRAY SHALE	3.0	37.0	
536.0	MATTOON		SHALE & SANDSTONE	41.0	40.0	
495.0	MATTOON		SANDSTONE	1.0	81.0	
494.0	MATTOON		SHALE & SANDSTONE	6.0	82.0	
488.0	MATTOON		GRAY SHALE	26.0	88.0	
462.0	MATTOON	FALMOUTH	BLACK SHALE	3.8	114.0	OFF GAMMA LOG
458.2	MATTOON		GRAY SHALE	7.2	117.8	
451.0	MATTOON		LIMESTONE	3.0	125.0	
448.0	MATTOON		GREEN SHALE	8.5	128.0	
439.5	MATTOON		LIMESTONE	1.0	136.5	
438.5	MATTOON		GRAY SHALE	22.0	137.5	
416.5	MATTOON		LIMESTONE	2.5	159.5	
414.0	MATTOON		GRAY SHALE	5.0	162.0	
409.0	MATTOON	INGRAHAM	BLACK SHALE	6.0	167.0	OFF GAMMA LOG
403.0	MATTOON		GRAY SHALE	9.0	173.0	
394.0	MATTOON		LIMESTONE	0.7	182.0	
393.3	MATTOON		SANDSTONE	17.3	182.7	
376.0	MATTOON		GRAY SHALE	46.0	200.0	
330.0	MATTOON	TEUTOPOLIS	BLACK SHALE	3.0	246.0	OFF GAMMA LOG
327.0	MATTOON		SHALE & SANDSTONE	15.0	249.0	
312.0	MATTOON		SANDSTONE	8.0	264.0	
304.0	MATTOON		RED SHALE	5.0	272.0	
299.0	MATTOON		SANDSTONE	15.0	277.0	
284.0	MATTOON		SHALE	48.0	292.0	
236.0	MATTOON		SHALE & SANDSTONE	10.0	340.0	
226.0	MATTOON		SANDSTONE	28.3	350.0	
197.7	MATTOON		LIMESTONE	7.7	378.3	
190.0	MATTOON		SANDSTONE	24.0	386.0	
166.0	MATTOON		GRAY SHALE	9.0	410.0	
157.0	MATTOON		LIMESTONE	2.0	419.0	
155.0	MATTOON		SANDSTONE	21.0	421.0	
134.0	MATTOON		GRAY SHALE	70.0	442.0	
64.0	MATTOON		BLACK SHALE	5.0	512.0	OFF GAMMA LOG
59.0	MATTOON		SANDSTONE	3.0	517.0	
56.0	MATTOON		GRAY SHALE	27.0	520.0	
29.0	MATTOON		SANDSTONE	6.0	547.0	

23.0	MATTOON		COAL	1.0	553.0	
22.0	MATTOON		GRAY SHALE	4.5	554.0	
17.5	MATTOON		SANDSTONE/SHALE	2.5	558.5	
15.0	MATTOON		SHALE	1.4	561.0	
13.6	BOND	MILLERSVILLE	LIMESTONE	6.6	562.4	COMBO OF E-LOGS
7.0	BOND	MILLERSVILLE	GRAY SHALE	12.0	569.0	COMBO OF E-LOGS
-5.0	BOND	MILLERSVILLE	LIMESTONE	6.0	581.0	COMBO OF E-LOGS
-11.0	BOND	MILLERSVILLE	GRAY SHALE	8.0	587.0	COMBO OF E-LOGS
-19.0	BOND	MILLERSVILLE	LIMESTONE	4.0	595.0	
-23.0	BOND		SANDSTONE/SHALE	21.0	599.0	
-44.0	BOND		GRAY SHALE	82.0	620.0	
-126.0	BOND		LIMESTONE	5.0	702.0	
-131.0	BOND		GRAY SHALE	36.0	707.0	
-167.0	BOND		COAL	2.0	743.0	
-169.0	BOND		GRAY SHALE	5.5	745.0	
-174.5	BOND		SANDSTONE	5.5	750.5	
-180.0	BOND		GRAY SHALE	29.0	756.0	
-209.0	BOND	CARTHAGE	LIMESTONE	5.0	785.0	AVE. B/LOGS
-214.0	MODESTO		DARK SHALE	5.5	790.0	
-219.5	MODESTO	NEW HAVEN	BLACK SHALE	1.0	795.5	
-220.5	MODESTO		GRAY SHALE	27.5	796.5	
-248.0	MODESTO		CALCAREOUS SHALE	7.0	824.0	
-255.0	MODESTO		DARK SHALE	15.0	831.0	
-270.0	MODESTO	CHAPEL	COAL	2.0	846.0	
-272.0	MODESTO		GRAY SHALE	14.0	848.0	
-286.0	MODESTO		SHALE & SANDSTONE	4.0	862.0	
-290.0	MODESTO		GRAY SHALE	99.0	866.0	
-389.0	MODESTO		SANDSTONE/SHALE	7.0	965.0	
-396.0	MODESTO		GREEN SHALE	10.0	972.0	
-406.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	982.0	
-414.0	MODESTO		GRAY SHALE	6.0	990.0	
-420.0	MODESTO		GRAY SHALE & LIMESTONE	4.0	996.0	
-424.0	MODESTO		LIMESTONE	1.5	1000.0	
-425.5	MODESTO		GRAY SHALE	12.5	1001.5	
-438.0	MODESTO		LIMESTONE	1.0	1014.0	
-439.0	MODESTO		SHALE	110.0	1015.0	
-549.0	CARBONDALE	DANVILLE	COAL	4.0	1125.0	
-553.0	CARBONDALE		GRAY SHALE	8.0	1129.0	
-561.0	CARBONDALE	CONANT	LIMESTONE	3.0	1137.0	
-564.0	CARBONDALE	JAMESTOWN	COAL	2.5	1140.0	
-566.5	CARBONDALE		SHALE	3.3	1142.5	
-569.8	CARBONDALE	BRERETON	LIMESTONE	5.0	1145.8	
-574.8	CARBONDALE	ANNA	BLACK SHALE	0.2	1150.8	
-575.0	CARBONDALE	ANNA	BLACK SHALE	2.6	1151.0	CORE #1
-577.6	CARBONDALE	HERRIN	COAL	6.0	1153.6	
-583.6	CARBONDALE		UNDERCLAY	2.9	1159.6	
-586.5	CARBONDALE		UNDERCLAY	1.5	1162.5	

-588.0	CARBONDALE		GRAY SHALE	15.0	1164.0	
-603.0	CARBONDALE	ST. DAVID	LIMESTONE	1.0	1179.0	
-604.0	CARBONDALE	ST. DAVID	SHALE	1.0	1180.0	
-605.0	CARBONDALE	ST. DAVID	LIMESTONE	0.8	1181.0	
-605.8	CARBONDALE	TURNER MINE	BLACK SHALE	0.7	1181.8	
-606.5	CARBONDALE	SPRINGFIELD	COAL	4.5	1182.5	
-611.0	CARBONDALE		UNDERCLAY	4.0	1187.0	
-615.0	CARBONDALE		GRAY SHALE	72.0	1191.0	
-687.0	CARBONDALE	HANOVER	LIMESTONE	1.0	1263.0	
-688.0	CARBONDALE	EXCELLO	BLACK SHALE & CLAY	7.0	1264.0	LOWER PART OF INTERVAL IS HOUCHIN CREEK
-695.0	CARBONDALE		GRAY SHALE	49.0	1271.0	
-744.0	CARBONDALE		UNDERCLAY	4.0	1320.0	SURVANT COAL HORIZON
-748.0	CARBONDALE		GRAY SHALE	84.5	1324.0	
-832.5	CARBONDALE	COLCHESTER	COAL	2.5	1408.5	
-835.0	SPOON		GRAY SHALE	10.0	1411.0	
-845.0	SPOON		GRAY SHALE	7.0	1421.0	CORE #2 1421-1436'
-852.0	SPOON		SHALE & SILTSTONE	1.2	1428.0	
-853.2	SPOON	SEELYVILLE	COAL	2.2	1429.2	
-855.4	SPOON	SEELYVILLE	PYRITE & SHALE	0.6	1431.4	
-856.0	SPOON	SEELYVILLE	COAL	3.4	1432.0	
-859.4	SPOON		SHALE	0.3	1435.4	
-859.6	SPOON		CORE LOSS	0.4	1435.6	
-860.0	SPOON		GRAY SHALE	7.0	1436.0	END OF CORE
-867.0	SPOON		LIMESTONE	1.4	1443.0	
-868.4	SPOON		COAL WITH SHALE	2.6	1444.4	
-871.0	SPOON		GRAY SHALE	13.0	1447.0	

MAPID: 07902316000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 8N 8E **SECTION:** 8 **QUARTERS/FOOTAGES:** NW NW SE
QUADRANGLE: WOODBURY **LONGITUDE:** -88.343496 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.153202 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 1384.0 **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	BOND	CARTHAGE	LIMESTONE	5.0	751.0
-504.0	CARBONDALE	DANVILLE	COAL	2.5	1094.0
-531.0	CARBONDALE	HERRIN	COAL	4.0	1121.0
-560.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1150.0
-644.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1234.0
-768.0	CARBONDALE	COLCHESTER	COAL	-	1358.0
-789.0	SPOON	SEELYVILLE	COAL	5.0	1379.0

MAPID: 07923587000C VERSION: 1 PROJECT: CONF

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 8 QUARTERS/FOOTAGES: 78' N line, 1250' W line

QUADRANGLE: WOODBURY LONGITUDE: -88.349387 GEOLOGIST:

CONFIDENTIAL: N LATITUDE: 39.161592 DATE COLLECTED: 9 / 3 / 1981

SURFACE ELEVATION (FT.): 595.0 LOGGED (FT.): 1415.0 LOG TYPE: Drillers Log

SOURCE: MOBIL OIL IG-81-8-15C WELL TYPE: Coal Test

COMMENT: TOPS & THICK. FROM COAL SEC. LOG BOOK

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-517.0	SHELBURN	JAMESTOWN	COAL	1.0	1112.0	
-526.7	CARBONDALE	HERRIN	COAL	6.4	1121.7	
-702.0	CARBONDALE	SURVANT	COAL	1.0	1297.0	
-729.0	CARBONDALE	SURVANT	COAL	1.0	1324.0	
-778.0	CARBONDALE	COLCHESTER	COAL	-	1373.0	NO THICKNESS GIVEN
-793.5	CARBONDALE	SEELYVILLE	COAL	7.3	1388.5	

MAPID: 07923587000C VERSION: 2

PROJECT: NCRDS89

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 8 QUARTERS/FOOTAGES: 78' N line, 1250' W line
 QUADRANGLE: WOODBURY LONGITUDE: -88.349387 GEOLOGIST: SROKA
 CONFIDENTIAL: N LATITUDE: 39.161592 DATE COLLECTED: 9 / 3 / 1981
 SURFACE ELEVATION (FT.): 595.0 LOGGED (FT.): 1415.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL IG-81-8-15C WELL TYPE: Coal Test
 COMMENT: DRILLER'S LOG AND ISGS CORE DESCRIPTION

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
595.0			UNCONSOLIDATED	12.0	0.0	
583.0	MATTOON		SHALE	9.0	12.0	TAN
574.0	MATTOON		SANDY SHALE	5.0	21.0	GRAY
569.0	MATTOON		SHALE & SANDSTONE	14.0	26.0	D SH SS
555.0	MATTOON		SANDY SHALE	20.0	40.0	GRAY
535.0	MATTOON		GRAY SHALE	47.0	60.0	
488.0	MATTOON	FALMOUTH	BLACK SHALE	2.0	107.0	
486.0	MATTOON		CALCAREOUS SHALE	2.0	109.0	GRAY
484.0	MATTOON		SILTY SHALE	9.0	111.0	GRAY
475.0	MATTOON		LIMESTONE	2.5	120.0	BROWN
472.5	MATTOON		SANDSTONE	5.5	122.5	
467.0	MATTOON		SHALE & SANDSTONE	9.0	128.0	D SH SS
458.0	MATTOON		LIMESTONE	1.0	137.0	TAN
457.0	MATTOON		GRAY SHALE	10.0	138.0	
447.0	MATTOON	INGRAHAM	BLACK SHALE	2.0	148.0	W/COAL
445.0	MATTOON		CALCAREOUS SHALE	10.0	150.0	GRAY
435.0	MATTOON		SHALE	9.0	160.0	DRK GRAY
426.0	MATTOON		LIMESTONE	0.5	169.0	
425.5	MATTOON		SHALE	8.5	169.5	DARK SH AND BLACK SHALE
417.0	MATTOON		GRAY SHALE	2.5	178.0	
414.5	MATTOON		LIMESTONE	1.5	180.5	TAN
413.0	MATTOON		SANDY SHALE	6.0	182.0	GRAY
407.0	MATTOON		SHALY SANDSTONE	4.0	188.0	
403.0	MATTOON		GRAY SHALE	28.0	192.0	
375.0	MATTOON		SHALE	4.0	220.0	DARK SH AND BLACK SHALE
371.0	MATTOON		GRAY SHALE	4.0	224.0	
367.0	MATTOON		LIMESTONE	1.0	228.0	
366.0	MATTOON		GRAY SHALE	21.0	229.0	
345.0	MATTOON		LIMESTONE W/ SHALE	2.5	250.0	
342.5	MATTOON		SHALE	8.5	252.5	DRK GRAY
334.0	MATTOON		LIMESTONE	1.0	261.0	DARK
333.0	MATTOON		GRAY SHALE	4.0	262.0	
329.0	MATTOON	TEUTOPOLIS	BLACK SHALE	7.0	266.0	
322.0	MATTOON		SILTY SHALE	9.0	273.0	GRAY
313.0	MATTOON		SANDSTONE	21.0	282.0	
292.0	MATTOON		LIMESTONE	16.0	303.0	TAN
276.0	MATTOON		SHALE & SANDSTONE	13.0	319.0	
263.0	MATTOON		SANDY SHALE	56.0	332.0	GRAY
207.0	MATTOON		SANDSTONE	10.0	388.0	

197.0	MATTOON		SANDY SHALE	2.0	398.0	GRAY
195.0	MATTOON		GRAY SHALE	15.0	400.0	
180.0	MATTOON		SANDY SHALE	15.0	415.0	GRAY
165.0	MATTOON		SILTY SHALE	20.0	430.0	GRAY
145.0	MATTOON		GRAY SHALE	19.0	450.0	
126.0	MATTOON		BLACK SHALE	1.0	469.0	
125.0	MATTOON		GRAY SHALE	13.0	470.0	
112.0	MATTOON		COAL	1.0	483.0	
111.0	MATTOON		SANDY SHALE	18.0	484.0	GRAY
93.0	MATTOON		COAL	2.0	502.0	
91.0	MATTOON		GRAY SHALE	2.0	504.0	
89.0	MATTOON		SANDSTONE	49.0	506.0	
40.0	MATTOON		COAL	2.0	555.0	
38.0	MATTOON		GRAY SHALE	3.0	557.0	
35.0	MATTOON		COAL	1.0	560.0	
34.0	MATTOON		GRAY SHALE	9.0	561.0	
25.0	BOND	MILLERSVILLE	LIMESTONE	11.0	570.0	
14.0	BOND	MILLERSVILLE	GRAY SHALE	11.0	581.0	
3.0	BOND	MILLERSVILLE	LIMESTONE	6.0	592.0	
-3.0	BOND		GRAY SHALE	8.0	598.0	
-11.0	BOND		BLACK SHALE	2.0	606.0	
-13.0	BOND		CALCAREOUS SHALE	2.0	608.0	
-15.0	BOND		GRAY SHALE	63.0	610.0	
-78.0	BOND		COAL	1.0	673.0	
-79.0	BOND		GRAY SHALE	8.0	674.0	
-87.0	BOND		LIMESTONE	2.0	682.0	
-89.0	BOND		SANDY SHALE	16.0	684.0	GRAY
-105.0	BOND		SANDSTONE	12.0	700.0	
-117.0	BOND		SANDY SHALE	8.0	712.0	GRAY
-125.0	BOND		SHALE & SANDSTONE	8.0	720.0	
-133.0	BOND		GRAY SHALE	2.0	728.0	
-135.0	BOND		SILTY SHALE	16.0	730.0	GRAY
-151.0			SANDSTONE	10.0	746.0	
-161.0			SANDY SHALE	13.0	756.0	GRAY
-174.0			SHALE & SANDSTONE	11.0	769.0	
-185.0			SHALE	2.0	780.0	
-187.0			SANDSTONE	6.0	782.0	
-193.0	MODESTO		BLACK SHALE	2.0	788.0	
-195.0	MODESTO		SHALE	12.0	790.0	DRK GRAY
-207.0	MODESTO		BLACK SHALE	2.0	802.0	W/COAL
-209.0	MODESTO		SHALE	16.0	804.0	COAL
-225.0	MODESTO		CALCAREOUS SHALE	10.0	820.0	GRAY
-235.0	MODESTO		GRAY SHALE	63.0	830.0	
-298.0	MODESTO		COAL	1.0	893.0	
-299.0	MODESTO		GRAY SHALE	12.0	894.0	
-311.0	MODESTO		LIMESTONE W/ SHALE	2.0	906.0	
-313.0	MODESTO		LIMESTONE	2.0	908.0	
-315.0	MODESTO		SILTY SHALE	12.0	910.0	GRAY

-327.0	MODESTO		SANDSTONE	9.0	922.0	
-336.0	MODESTO		SHALE	4.0	931.0	
-340.0	MODESTO		SANDSTONE	10.0	935.0	
-350.0	MODESTO		SANDSTONE	5.0	945.0	
-355.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.7	950.0	TAN/BUFF
-359.7	MODESTO	WEST FRANKLIN	SHALE	13.8	954.7	MULTI-COLORED
-373.5	MODESTO	WEST FRANKLIN	LIMESTONE	2.5	968.5	TAN/BUFF
-376.0	MODESTO		SANDY SHALE	49.0	971.0	GRAY
-425.0	MODESTO		SILTY SHALE	74.2	1020.0	GRAY
-499.2	CARBONDALE	DANVILLE	COAL	2.8	1094.2	
-502.0	CARBONDALE	DANVILLE	SHALE	1.0	1097.0	
-503.0	CARBONDALE	DANVILLE	COAL	2.0	1098.0	
-505.0	CARBONDALE		GRAY SHALE	8.0	1100.0	
-513.0	CARBONDALE	CONANT	LIMESTONE	1.0	1108.0	
-514.0	CARBONDALE		GRAY SHALE	3.0	1109.0	
-517.0	CARBONDALE	JAMESTOWN	COAL	1.0	1112.0	
-518.0	CARBONDALE	BRERETON	LIMESTONE	5.9	1113.0	ISGS CORE DESCR TO 1128.35; BRACHS,FUSUL
-523.9	CARBONDALE	ANNA	BLACK SHALE	2.9	1118.9	
-526.7	CARBONDALE	HERRIN	COAL	6.3	1121.7	NUMEROUS PYR LENSES, SH 1125.83-1125.91
-533.1	CARBONDALE		CLAYSTONE	1.0	1128.1	SLICKENSIDED, PLANT AT TOP, DRK GRAY
-534.0	CARBONDALE		UNDERCLAY	2.0	1129.0	
-536.0	CARBONDALE		SILTY SHALE	9.0	1131.0	GRAY
-545.0	CARBONDALE		SHALE/COAL	20.0	1140.0	SPRINGFIELD #5 COAL
-565.0	CARBONDALE		GRAY SHALE	79.5	1160.0	
-644.5	CARBONDALE	EXCELLO	BLACK SHALE & LIMESTONE	3.0	1239.5	
-647.5	CARBONDALE		SHALE & SANDSTONE	17.5	1242.5	
-665.0	CARBONDALE		SILTY SHALE	37.0	1260.0	GRAY
-702.0	CARBONDALE	SURVANT - UPPER	COAL	1.0	1297.0	
-703.0	CARBONDALE		SANDY SHALE	12.0	1298.0	GRAY
-715.0	CARBONDALE		SILTY SHALE	8.0	1310.0	GRAY
-723.0	CARBONDALE		GRAY SHALE	6.0	1318.0	
-729.0	CARBONDALE	SURVANT - LOWER	COAL	1.0	1324.0	
-730.0	CARBONDALE		GRAY SHALE	48.0	1325.0	
-778.0	CARBONDALE	COLCHESTER	BLACK SHALE & COAL	2.0	1373.0	
-780.0	SPOON		SANDY SHALE	13.5	1375.0	GRAY
-793.5	SPOON	SEELYVILLE	COAL	7.3	1388.5	MANY SHALE LENSES;ISGS CORE 1389-1400.55
-800.8	SPOON		CLAYSTONE	1.7	1395.8	COAL STRINGERS, FEW CALC-PYRITIC NODULES
-802.5	SPOON		CLAYSTONE	3.1	1397.5	SLICKENSIDED, NODULES, GRAY
-805.6	SPOON		UNCLASSIFIED	14.5	1400.6	RAT HOLE FOR LOGGING

MAPID: 07922769000C VERSION: 1

PROJECT: NCRDS92

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 9 QUARTERS/FOOTAGES: 180' S line, 1360' W line
 QUADRANGLE: WOODBURY LONGITUDE: -88.33062 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.146616 DATE COLLECTED: 9 / 11 / 1978
 SURFACE ELEVATION (FT.): 580.0 LOGGED (FT.): 1160.0 LOG TYPE: Drillers Log
 SOURCE: MOBIL OIL CORP. IG-78-15C WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
580.0			CLAY	9.5	0.0	
570.5	MATTOON		SANDSTONE	1.0	9.5	
569.5	MATTOON		DARK GRAY SHALE	35.5	10.5	
534.0	MATTOON		SANDSTONE	8.0	46.0	
526.0	MATTOON		SANDY SHALE	6.0	54.0	
520.0	MATTOON		DARK GRAY SHALE	18.0	60.0	
502.0	MATTOON		DARK GRAY SHALE	16.0	78.0	DGY SH W/ SDY STREAKS
486.0	MATTOON		SANDY SHALE	48.0	94.0	
438.0	MATTOON		SANDSTONE	8.0	142.0	
430.0	MATTOON		SANDSTONE	2.0	150.0	
428.0	MATTOON		DARK GRAY SHALE	2.0	152.0	
426.0	MATTOON		BLACK SHALE	2.0	154.0	BK SH & CO
424.0	MATTOON		GRAY SHALE	4.0	156.0	
420.0	MATTOON		SANDY SHALE	14.0	160.0	
406.0	MATTOON		LIMESTONE	2.0	174.0	
404.0	MATTOON		DARK GRAY SHALE	2.0	176.0	
402.0	MATTOON		BLACK SHALE	3.0	178.0	
399.0	MATTOON		GRAY SHALE	3.0	181.0	
396.0	MATTOON		LIMESTONE	4.0	184.0	LS W/ SH BREAKS
392.0	MATTOON		SANDSTONE	2.0	188.0	
390.0	MATTOON		CALCAREOUS SANDSTONE	5.0	190.0	
385.0	MATTOON		SANDSTONE	2.0	195.0	SHALEY SS
383.0	MATTOON		SANDY SHALE	7.0	197.0	
376.0	MATTOON		DARK GRAY SHALE	20.0	204.0	
356.0	MATTOON		BLACK SHALE	2.0	224.0	BK SH & CO
354.0	MATTOON		GRAY SHALE	1.5	226.0	
352.5	MATTOON		LIMESTONE	0.5	227.5	
352.0	MATTOON		CALCAREOUS SHALE	6.0	228.0	
346.0	MATTOON		GRAY SHALE	5.0	234.0	
341.0	MATTOON		DARK GRAY SHALE	23.0	239.0	
318.0	MATTOON		LIMESTONE	5.8	262.0	
312.2	MATTOON		DARK GRAY SHALE	2.2	267.8	
310.0	MATTOON		BLACK SHALE	3.0	270.0	BK SH W/ SLATE
307.0	MATTOON		GRAY SHALE	4.0	273.0	
303.0	MATTOON		SANDY SHALE	11.0	277.0	
292.0	MATTOON		GRAY SHALE	7.0	288.0	
285.0	MATTOON		SANDSTONE	9.0	295.0	
276.0	MATTOON		GRAY SHALE	6.0	304.0	GY SH W/ SS STREAKS

270.0	MATTOON		GRAY SHALE	5.0	310.0	
265.0	MATTOON		LIMESTONE	4.0	315.0	
261.0	MATTOON		DARK GRAY SHALE	5.0	319.0	
256.0	MATTOON		SANDY SHALE	81.0	324.0	
175.0	MATTOON		BLACK SHALE	2.0	405.0	BK SH W/ SOME COAL
173.0	MATTOON		GRAY SHALE	8.5	407.0	
164.5	MATTOON		COAL	1.5	415.5	
163.0	MATTOON		GRAY SHALE	8.0	417.0	
155.0	MATTOON		GRAY SHALE	25.0	425.0	GY SH W/ SS STREAKS
130.0	MATTOON		GRAY SHALE	47.0	450.0	
83.0	MATTOON		CALCAREOUS SHALE	4.0	497.0	
79.0	MATTOON		GRAY SHALE	13.0	501.0	
66.0	MATTOON		SANDY SHALE	7.0	514.0	
59.0	MATTOON		DARK GRAY SHALE	7.0	521.0	
52.0	MATTOON		BLACK SHALE	8.0	528.0	BK SH & SOME CO
44.0	MATTOON		BROWN SHALE	10.0	536.0	
34.0	MATTOON		DARK GRAY SHALE	2.0	546.0	
32.0	MATTOON		COAL WITH SHALE	3.0	548.0	CO & BK SH
29.0	MATTOON		GRAY SHALE	7.0	551.0	
22.0	MATTOON		CALCAREOUS SHALE	4.0	558.0	
18.0	BOND	MILLERSVILLE	LIMESTONE	7.2	562.0	
10.8	BOND	MILLERSVILLE	GRAY SHALE	10.8	569.2	
0.0	BOND	MILLERSVILLE	LIMESTONE	4.5	580.0	
-4.5	BOND		SANDY SHALE	7.2	584.5	
-11.7	BOND		CALCAREOUS SHALE	5.3	591.7	
-17.0	BOND		GRAY SHALE	23.0	597.0	
-40.0	BOND		BROWN SHALE	10.0	620.0	BN SH MIXED W/ DK SHALE
-50.0	BOND		GRAY SHALE	10.0	630.0	
-60.0	BOND		DARK GRAY SHALE	18.0	640.0	
-78.0	BOND		GRAY SHALE	10.0	658.0	
-88.0	BOND		CALCAREOUS SHALE	8.0	668.0	
-96.0	BOND		GRAY SHALE	16.0	676.0	
-112.0	BOND		SANDY SHALE	13.0	692.0	
-125.0	BOND		SILTY SHALE	25.0	705.0	
-150.0	BOND		GRAY SHALE	9.0	730.0	
-159.0	BOND	CARTHAGE	LIMESTONE	6.0	739.0	
-165.0	MODESTO		GRAY SHALE	2.0	745.0	
-167.0	MODESTO		BLACK SHALE	1.0	747.0	
-168.0	MODESTO		CALCAREOUS SHALE	28.2	748.0	
-196.2	MODESTO		GRAY SHALE	23.3	776.2	
-219.5	MODESTO		BLACK SHALE	8.5	799.5	BK SH W/ A LITTLE COAL
-228.0	MODESTO		GRAY SHALE	16.0	808.0	
-244.0	MODESTO		GRAY SHALE	34.0	824.0	GY SH W/ SS
-278.0	MODESTO		SANDY SHALE	7.0	858.0	
-285.0	MODESTO		GRAY SHALE	47.0	865.0	
-332.0	MODESTO		SILTY SHALE	12.0	912.0	
-344.0	MODESTO		BROWN SHALE	2.0	924.0	

-346.0	MODESTO		CALCAREOUS SHALE	1.0	926.0
-347.0	MODESTO		GRAY SHALE	21.0	927.0
-368.0	MODESTO		SANDY SHALE	7.0	948.0
-375.0	MODESTO		DARK GRAY SHALE	8.0	955.0
-383.0	MODESTO		LIMESTONE	0.5	963.0
-383.5	MODESTO		GRAY SHALE	36.5	963.5
-420.0	MODESTO		GRAY SHALE	78.2	1000.0
-498.2	CARBONDALE	DANVILLE	COAL	3.8	1078.2
-502.0	CARBONDALE		GRAY SHALE	7.0	1082.0
-509.0	CARBONDALE	CONANT	LIMESTONE	1.5	1089.0
-510.5	CARBONDALE		GRAY SHALE	1.5	1090.5
-512.0	CARBONDALE	JAMESTOWN	COAL	2.0	1092.0
-514.0	CARBONDALE	BRERETON	LIMESTONE	8.0	1094.0
-522.0	CARBONDALE		BLACK SHALE	0.5	1102.0
-522.5	CARBONDALE		GRAY SHALE	3.0	1102.5
-525.5	CARBONDALE	HERRIN	COAL	5.0	1105.5
-530.5	CARBONDALE		UNDERCLAY	1.5	1110.5
-532.0	CARBONDALE		LIMESTONE	1.0	1112.0
-533.0	CARBONDALE		GRAY SHALE	6.5	1113.0
-539.5	CARBONDALE	BRIAR HILL	COAL	0.5	1119.5
-540.0	CARBONDALE	ST. DAVID	LIMESTONE	12.0	1120.0
-552.0	CARBONDALE		BLACK SHALE	1.0	1132.0
-553.0	CARBONDALE		GRAY SHALE	2.1	1133.0
-555.1	CARBONDALE	SPRINGFIELD	COAL	3.9	1135.1
-559.0	CARBONDALE		GRAY SHALE	21.0	1139.0

MAPID: 07925485000C VERSION: 1

PROJECT: NCRDS 2011

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 9 QUARTERS/FOOTAGES: 70' S line, 320' E line
 QUADRANGLE: WOODBURY LONGITUDE: -88.318016 GEOLOGIST: LOUCHIOS
 CONFIDENTIAL: N LATITUDE: 39.1453 DATE COLLECTED: 12 / 23 / 2010
 SURFACE ELEVATION (FT.): 575.0 LOGGED (FT.): 435.0 LOG TYPE: Survey Core Study
 SOURCE: ISGS - ENGLEBART 1 WELL TYPE: Stratigraphic Test
 COMMENT: E-LOGS, GAMMA; GPS LOCATED

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
575.0	PLEISTOCENE	TROWBRIDGE	LOESS	2.0	0.0	SILT
573.0	PLEISTOCENE		SILTY CLAY	10.0	2.0	
563.0	MATTOON		SHALE	3.8	12.0	WEATHERED
559.2	MATTOON		SHALE & SANDSTONE	2.9	15.8	
556.3	MATTOON		MUDSTONE	1.0	18.7	
555.3	MATTOON		GRAY SHALE	7.9	19.7	
547.4	MATTOON		CLAYSTONE & SHALE	1.4	27.6	
546.0	MATTOON		CORE LOSS	0.7	29.0	
545.3	MATTOON		CLAYSTONE & SHALE	0.3	29.7	
545.0	MATTOON		MUDSTONE	5.0	30.0	
540.0	MATTOON		DARK SHALE	3.9	35.0	
536.1	MATTOON		MUDSTONE	5.6	38.9	
530.5	MATTOON		SILTSTONE/SANDSTONE	13.7	44.5	INTERLAMINATED
516.8	MATTOON		SILTSTONE	44.0	58.2	WITH SANDSTONE LAMINAE
472.8	MATTOON		DARK SHALE	35.2	102.2	
437.6	MATTOON		LIMESTONE	0.2	137.4	FOSSIL FRAGS (GASTROPOD, BIVALVE, BRACH)
437.4	MATTOON		DARK SHALE	2.0	137.6	
435.4	MATTOON		BLACK SHALE	1.7	139.6	DIETERICH SHALE
433.7	MATTOON		LIMESTONE	1.4	141.3	
432.3	MATTOON		MUDSTONE	14.5	142.7	MOTTLED, MASSIVE
417.8	MATTOON		SILTSTONE	14.1	157.2	
403.7	MATTOON		GRAY SHALE	2.2	171.3	
401.5	MATTOON		DARK SHALE	5.3	173.5	
396.2	MATTOON		COAL	3.1	178.8	BRIGHT BANDED
393.1	MATTOON		MUDSTONE	7.1	181.9	
386.0	MATTOON		CALCAREOUS CLAYSTONE	3.5	189.0	LS CLASTS
382.5	MATTOON		GRAY SHALE	5.1	192.5	
377.4	MATTOON		DARK SHALE	1.5	197.6	
375.9	MATTOON		LIMESTONE	0.9	199.1	BRACHIOPOD WACKESTONE
375.0	MATTOON		DARK GRAY SHALE	1.3	200.0	FOSSILIFEROUS
373.7	MATTOON		DOLOMITE	0.5	201.3	
373.2	MATTOON		DARK SHALE	2.0	201.8	
371.2	MATTOON	INGRAHAM	BLACK SHALE	5.8	203.8	VERY FISSILE
365.4	MATTOON		DARK SHALE	3.1	209.6	
362.3	MATTOON		LIMESTONE	1.0	212.7	
361.3	MATTOON		BLACK SHALE	0.9	213.7	
360.4	MATTOON		MUDSTONE	0.5	214.6	
359.9	MATTOON		SILTSTONE	2.5	215.1	

357.4	MATTOON		SANDSTONE	3.0	217.6	
354.4	MATTOON		GRAY SHALE	4.3	220.6	
350.1	MATTOON		SILTSTONE/SANDSTONE	1.6	224.9	
348.5	MATTOON		SILTY SHALE	11.5	226.5	PLANAR LAMINAE OF SILTST
337.0	MATTOON		DARK SHALE	12.2	238.0	
324.8	MATTOON		SILTY SHALE	2.0	250.2	CALCAREOUS
322.8	MATTOON		BLACK SHALE	0.6	252.2	VERY FISSILE
322.2	MATTOON		COAL	0.6	252.8	BRIGHT BANDED, CALCITE FILLS CLEAT
321.6	MATTOON		MUDSTONE	0.9	253.4	
320.7	MATTOON		LIMESTONE	1.2	254.3	MOTTLED, MASSIVE
319.5	MATTOON		SILTY BLACK SHALE	3.0	255.5	
316.5	MATTOON		LIMESTONE/MUDSTONE	2.0	258.5	BRECCIATED
314.5	MATTOON		MUDSTONE	2.0	260.5	
312.5	MATTOON		SILTY SHALE	2.5	262.5	
310.0	MATTOON		DARK SHALE	15.3	265.0	
294.7	MATTOON		SILTY SHALE	12.3	280.3	CALCAREOUS, BRACHIOPODS
282.4	MATTOON	SHUMWAY	LIMESTONE	0.7	292.6	SMALL BRACHIOPODS
281.7	MATTOON		DARK SHALE	4.7	293.3	
277.0	MATTOON	TEUTOPOLIS	BLACK SHALE	5.7	298.0	SLATY
271.3	MATTOON		DARK SHALE	14.8	303.7	
256.5	MATTOON		SANDSTONE	5.2	318.5	GRN-GRAY, VERY FINE GRAINED
251.3	MATTOON		CONGLOMERATE	5.8	323.7	SILTSTONE, SS, LS
245.5	MATTOON		SILTY SHALE	11.2	329.5	
234.3	MATTOON	OMEGA	LIMESTONE	3.0	340.7	UNCERTAIN CORRELATION
231.3	MATTOON		DARK SHALE	2.8	343.7	
228.5	MATTOON		SANDSTONE	9.1	346.5	
219.4	MATTOON		SHALE & SANDSTONE	11.4	355.6	INTERLAMINATED
208.0	MATTOON		GRAY SHALE	16.1	367.0	
191.9	MATTOON		LIMESTONE	0.2	383.1	
191.7	MATTOON		CLAYSTONE & SILTSTONE	1.4	383.3	
190.3	MATTOON		SILTY BLACK SHALE	5.3	384.7	DARK GRN-GRAY
185.0	MATTOON		MUDSTONE	15.0	390.0	
170.0	MATTOON		CLAYSTONE & SILTSTONE	5.5	405.0	DARK GRAY
164.5	MATTOON		SILTSTONE	4.1	410.5	
160.4	MATTOON		DARK SHALE	14.1	414.6	
146.3	MATTOON		COAL	1.3	428.7	COALY SHALE IN LOWER PART
145.0	MATTOON		DARK SHALE	1.7	430.0	
143.3	MATTOON		CARBONACEOUS SHALE	1.5	431.7	GRAY-BLACK
141.8	MATTOON		DARK SHALE	0.9	433.2	SIDERITE BANDS
140.9	MATTOON		CORE LOSS	0.9	434.1	

MAPID: 07923131000C VERSION: 1

PROJECT: NCRDS92

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 11 QUARTERS/FOOTAGES: 2055' N line, 54' E line
 QUADRANGLE: WOODBURY LONGITUDE: -88.279724 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.151539 DATE COLLECTED: 8 / 30 / 1979
 SURFACE ELEVATION (FT.): 585.0 LOGGED (FT.): 1200.0 LOG TYPE: Drillers Log
 SOURCE: MOBIL OIL CO. IG-79-11-9 WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.0			CLAY	34.0	0.0	
551.0			SAND	2.0	34.0	
549.0			SANDY CLAY	32.0	36.0	
517.0			CLAY	4.0	68.0	
513.0			CLAY	13.0	72.0	
500.0	MATTOON		SANDY SHALE	35.0	85.0	
465.0	MATTOON		DARK GRAY SHALE	17.0	120.0	
448.0	MATTOON		LIMESTONE	2.5	137.0	
445.5	MATTOON		SANDSTONE	8.7	139.5	
436.8	MATTOON		SANDSTONE	1.3	148.2	
435.5	MATTOON		SANDSTONE	6.5	149.5	
429.0	MATTOON		GRAY SHALE	15.0	156.0	
414.0	MATTOON		CALCAREOUS SHALE	13.0	171.0	
401.0	MATTOON		LIMESTONE	1.0	184.0	
400.0	MATTOON		CALCAREOUS SHALE	6.0	185.0	
394.0	MATTOON		DARK GRAY SHALE	2.0	191.0	
392.0	MATTOON		LIMESTONE	2.0	193.0	
390.0	MATTOON		SANDY SHALE	4.5	195.0	
385.5	MATTOON		SANDSTONE	10.5	199.5	
375.0	MATTOON		SANDY SHALE	14.0	210.0	
361.0	MATTOON		DARK SHALE	9.0	224.0	
352.0	MATTOON		LIMESTONE	1.3	233.0	
350.7	MATTOON		SANDY SHALE	15.7	234.3	
335.0	MATTOON		DARK GRAY SHALE	8.0	250.0	
327.0	MATTOON		DARK GRAY SHALE	9.0	258.0	
318.0	MATTOON		GRAY SHALE	9.0	267.0	
309.0	MATTOON		SANDY SHALE	11.5	276.0	
297.5	MATTOON		SANDSTONE	2.5	287.5	
295.0	MATTOON		SANDSTONE	7.0	290.0	
288.0	MATTOON		GRAY SHALE	3.0	297.0	
285.0	MATTOON		BROWN SHALE	17.0	300.0	
268.0	MATTOON		DARK GRAY SHALE	20.5	317.0	
247.5	MATTOON		SANDSTONE	2.5	337.5	SS & LS
245.0	MATTOON		SANDSTONE	10.0	340.0	
235.0	MATTOON		SANDSTONE	12.0	350.0	
223.0	MATTOON		SANDSTONE	8.0	362.0	
215.0	MATTOON		DARK GRAY SHALE	10.0	370.0	
205.0	MATTOON		SANDY SHALE	9.0	380.0	
196.0	MATTOON		GRAY SHALE	5.5	389.0	

190.5	MATTOON		GRAY SHALE	3.5	394.5	
187.0	MATTOON		SANDY SHALE	16.0	398.0	
171.0	MATTOON		COAL	1.0	414.0	
170.0	MATTOON		DARK GRAY SHALE	19.0	415.0	
151.0	MATTOON		CALCAREOUS SHALE	4.0	434.0	
147.0	MATTOON		SANDSTONE	22.0	438.0	
125.0	MATTOON		SANDY SHALE	10.0	460.0	
115.0	MATTOON		GRAY SHALE	45.0	470.0	
70.0	MATTOON		CALCAREOUS SHALE	3.0	515.0	
67.0	MATTOON		DARK GRAY SHALE	12.0	518.0	
55.0	MATTOON		GRAY SHALE	10.0	530.0	GY SH W/ SS STREAKS
45.0	MATTOON		SANDSTONE	29.0	540.0	
16.0	MATTOON		DARK GRAY SHALE	7.0	569.0	
9.0	MATTOON	COHN	COAL	2.0	576.0	
7.0	MATTOON		GRAY SHALE	4.0	578.0	
3.0	BOND	MILLERSVILLE	LIMESTONE	3.0	582.0	
0.0	BOND	MILLERSVILLE	SANDSTONE	3.0	585.0	
-3.0	BOND	MILLERSVILLE	LIMESTONE	5.0	588.0	
-8.0	BOND	MILLERSVILLE	GRAY SHALE	7.8	593.0	
-15.8	BOND	MILLERSVILLE	LIMESTONE	4.2	600.8	
-20.0	BOND		SANDSTONE	3.0	605.0	
-23.0	BOND		SANDY SHALE	6.0	608.0	
-29.0	BOND		GRAY SHALE	6.0	614.0	
-35.0	BOND		SANDY SHALE	30.0	620.0	
-65.0	BOND		GRAY SHALE	15.0	650.0	
-80.0	BOND		CALCAREOUS SHALE	7.0	665.0	
-87.0	BOND		GRAY SHALE	22.0	672.0	
-109.0	BOND		LIMESTONE	2.0	694.0	LS W/ SH STREAKS
-111.0	BOND		GRAY SHALE	23.0	696.0	GY SH W/ SH STREAKS
-134.0	BOND		COAL	2.0	719.0	
-136.0	BOND		GRAY SHALE	9.0	721.0	
-145.0	BOND		SANDY SHALE	2.0	730.0	
-147.0	BOND		SANDSTONE	4.0	732.0	
-151.0	BOND		GRAY SHALE	26.0	736.0	GY SH & SS
-177.0	BOND		GRAY SHALE	24.5	762.0	
-201.5	BOND	CARTHAGE	LIMESTONE	6.5	786.5	
-208.0	MODESTO		DARK GRAY SHALE	2.0	793.0	
-210.0	MODESTO		BLACK SHALE	1.0	795.0	BK SH W/ COAL
-211.0	MODESTO		GRAY SHALE	4.0	796.0	
-215.0	MODESTO		GRAY SHALE	10.0	800.0	
-225.0	MODESTO		CALCAREOUS SHALE	20.0	810.0	
-245.0	MODESTO		GRAY SHALE	12.5	830.0	
-257.5	MODESTO		BLACK SHALE	2.0	842.5	BK SH W/ CO
-259.5	MODESTO		GRAY SHALE	25.5	844.5	
-285.0	MODESTO		DARK GRAY SHALE	12.0	870.0	
-297.0	MODESTO		SANDY SHALE	65.0	882.0	
-362.0	MODESTO		CALCAREOUS SHALE	3.0	947.0	

-365.0	MODESTO		GRAY SHALE	6.0	950.0
-371.0	MODESTO		CALCAREOUS SHALE	2.0	956.0
-373.0	MODESTO		GRAY SHALE	11.5	958.0
-384.5	MODESTO	WEST FRANKLIN	LIMESTONE	1.0	969.5
-385.5	MODESTO	WEST FRANKLIN	DARK GRAY SHALE	2.2	970.5
-387.7	MODESTO	WEST FRANKLIN	LIMESTONE	6.3	972.7
-394.0	MODESTO		GRAY SHALE	9.0	979.0
-403.0	MODESTO		CALCAREOUS SHALE	4.3	988.0
-407.3	MODESTO		LIMESTONE	1.4	992.3
-408.7	MODESTO		CALCAREOUS SHALE	3.3	993.7
-412.0	MODESTO		GRAY SHALE	15.0	997.0
-427.0	MODESTO		SILTY SHALE	12.0	1012.0
-439.0	MODESTO		DARK GRAY SHALE	6.0	1024.0
-445.0	MODESTO		GRAY SHALE	10.0	1030.0
-455.0	MODESTO		GRAY SHALE	83.8	1040.0
-538.8	CARBONDALE	DANVILLE	COAL	4.0	1123.8
-542.8	CARBONDALE		DARK GRAY SHALE	3.7	1127.8
-546.5	CARBONDALE		CALCAREOUS SHALE	8.5	1131.5
-555.0	CARBONDALE		LIMESTONE	2.8	1140.0
-557.8	CARBONDALE		BLACK SHALE	1.0	1142.8
-558.8	CARBONDALE		DARK GRAY SHALE	4.2	1143.8
-563.0	CARBONDALE	BRERETON	LIMESTONE	5.0	1148.0
-568.0	CARBONDALE	HERRIN	COAL	6.0	1153.0
-574.0	CARBONDALE		DARK GRAY SHALE	5.0	1159.0
-579.0	CARBONDALE		CALCAREOUS SHALE	14.0	1164.0
-593.0	CARBONDALE	BRIAR HILL	COAL	1.8	1178.0
-594.8	CARBONDALE		DARK SHALE	1.5	1179.8
-596.3	CARBONDALE	TURNER MINE	BLACK SHALE	0.5	1181.3
-596.8	CARBONDALE	SPRINGFIELD	COAL	3.9	1181.8
-600.7	CARBONDALE		UNDERCLAY	2.3	1185.7
-603.0	CARBONDALE		LIMESTONE	2.4	1188.0
-605.4	CARBONDALE		CALCAREOUS SHALE	9.6	1190.4

MAPID: 07900306000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 13 QUARTERS/FOOTAGES: NW NW SE

QUADRANGLE: WOODBURY LONGITUDE: -88.268992 GEOLOGIST: C TREWORGY

CONFIDENTIAL: N LATITUDE: 39.133912 DATE COLLECTED:

SURFACE ELEVATION (FT.): 583.0 LOGGED (FT.): 1427.0 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-201.0	BOND	CARTHAGE	LIMESTONE	6.0	784.0
-390.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	973.0
-541.0	CARBONDALE	DANVILLE	COAL	2.0	1124.0
-571.0	CARBONDALE	HERRIN	COAL	4.0	1154.0
-607.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1190.0
-689.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1272.0
-825.0	CARBONDALE	COLCHESTER	COAL	-	1408.0
-838.0	SPOON	SEELYVILLE	COAL	6.0	1421.0

MAPID: 07924684000C VERSION: 1

PROJECT: NCRDS92

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 15 QUARTERS/FOOTAGES: 62' S line, 2620' W line
 QUADRANGLE: WOODBURY LONGITUDE: -88.307601 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.130084 DATE COLLECTED: 8 / 17 / 1979
 SURFACE ELEVATION (FT.): 585.0 LOGGED (FT.): 1210.0 LOG TYPE: Drillers Log
 SOURCE: MOBIL OIL CO. IG-79-15-8 WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.0			CLAY	10.0	0.0	GRAY
575.0			SANDY CLAY	8.0	10.0	
567.0	MATTOON		SANDY SHALE	6.0	18.0	
561.0	MATTOON		SHALE	4.0	24.0	
557.0	MATTOON		SANDSTONE	2.0	28.0	
555.0	MATTOON		SANDY SHALE	18.0	30.0	
537.0	MATTOON		SHALE	2.0	48.0	
535.0	MATTOON		DARK GRAY SHALE	4.0	50.0	
531.0	MATTOON		SANDSTONE	4.0	54.0	
527.0	MATTOON		LIMESTONE	2.0	58.0	
525.0	MATTOON		SANDSTONE	40.0	60.0	
485.0	MATTOON		SANDSTONE	30.0	100.0	
455.0	MATTOON		DARK SHALE	16.0	130.0	
439.0	MATTOON		LIMESTONE	2.5	146.0	
436.5	MATTOON		CALCAREOUS SHALE	11.5	148.5	
425.0	MATTOON		SANDY SHALE	8.0	160.0	
417.0	MATTOON		SANDSTONE	14.0	168.0	
403.0	MATTOON		SILTY SHALE	6.0	182.0	
397.0	MATTOON		BLACK SHALE	2.0	188.0	BK SH W/ TRACE OF COAL
395.0	MATTOON		SANDY SHALE	20.0	190.0	
375.0	MATTOON		LIMESTONE	1.0	210.0	
374.0	MATTOON		GRAY SHALE	3.0	211.0	
371.0	MATTOON		BLACK SHALE	2.0	214.0	
369.0	MATTOON		GRAY SHALE	3.5	216.0	
365.5	MATTOON		LIMESTONE	3.5	219.5	
362.0	MATTOON		SANDSTONE	14.0	223.0	
348.0	MATTOON		DARK SHALE	27.0	237.0	
321.0	MATTOON		LIMESTONE	3.0	264.0	
318.0	MATTOON		SANDY SHALE	20.0	267.0	
298.0	MATTOON		LIMESTONE	3.0	287.0	
295.0	MATTOON		DARK SHALE	8.5	290.0	
286.5	MATTOON		DARK GRAY SHALE	2.5	298.5	
284.0	MATTOON		SANDY SHALE	9.0	301.0	
275.0	MATTOON		LIMESTONE	3.0	310.0	
272.0	MATTOON		GRAY SHALE	19.0	313.0	
253.0	MATTOON		CALCAREOUS SHALE	6.0	332.0	
247.0	MATTOON		GRAY SHALE	9.0	338.0	
238.0	MATTOON		LIMESTONE	0.5	347.0	
237.5	MATTOON		COAL	2.5	347.5	

235.0	MATTOON		SANDSTONE	14.0	350.0	
221.0	MATTOON		GRAY SHALE	16.0	364.0	
205.0	MATTOON		CALCAREOUS SHALE	23.0	380.0	
182.0	MATTOON		SANDY SHALE	17.0	403.0	
165.0	MATTOON		DARK GRAY SHALE	13.0	420.0	
152.0	MATTOON		SANDY SHALE	17.0	433.0	
135.0	MATTOON		LIMESTONE	1.0	450.0	
134.0	MATTOON		CALCAREOUS SHALE	29.5	451.0	
104.5	MATTOON		LIMESTONE	0.5	480.5	
104.0	MATTOON		SANDSTONE	14.0	481.0	SS & DK SH
90.0	MATTOON		SANDY SHALE	15.0	495.0	
75.0	MATTOON		GRAY SHALE	10.0	510.0	
65.0	MATTOON		CALCAREOUS SHALE	12.0	520.0	
53.0	MATTOON		GRAY SHALE	9.0	532.0	
44.0	MATTOON		LIMESTONE	3.0	541.0	
41.0	MATTOON		GRAY SHALE	5.0	544.0	
36.0	MATTOON		CALCAREOUS SANDSTONE	4.0	549.0	
32.0	MATTOON		SANDY SHALE	5.0	553.0	
27.0	MATTOON		GRAY SHALE	27.0	558.0	
0.0	MATTOON		COAL	2.0	585.0	
-2.0	MATTOON		GRAY SHALE	13.5	587.0	
-15.5	BOND	MILLERSVILLE	COAL	3.3	600.5	
-18.8	BOND	MILLERSVILLE	GRAY SHALE	9.2	603.8	
-28.0	BOND	MILLERSVILLE	LIMESTONE	2.0	613.0	
-30.0	BOND		GRAY SHALE	24.0	615.0	
-54.0	BOND		CALCAREOUS SANDSTONE	9.0	639.0	
-63.0	BOND		SANDY SHALE	16.0	648.0	
-79.0	BOND		SANDY SHALE	22.0	664.0	
-101.0	BOND		SANDY SHALE	27.0	686.0	
-128.0	BOND		COAL	1.5	713.0	
-129.5	BOND		GRAY SHALE	15.5	714.5	
-145.0	BOND		SANDY SHALE	22.0	730.0	
-167.0	BOND		COAL	2.0	752.0	
-169.0	BOND		GRAY SHALE	6.0	754.0	
-175.0	BOND		GRAY SHALE	4.0	760.0	GY SH & SS
-179.0	BOND		SANDSTONE	16.5	764.0	
-195.5	BOND		LIMESTONE	0.5	780.5	
-196.0	BOND		SANDSTONE	14.0	781.0	
-210.0	BOND		LIMESTONE	1.5	795.0	
-211.5	BOND		SANDSTONE	6.5	796.5	
-218.0	BOND	CARTHAGE	LIMESTONE	5.3	803.0	
-223.3	MODESTO		SANDY SHALE	1.7	808.3	
-225.0	MODESTO		BLACK SHALE	4.0	810.0	
-229.0	MODESTO		SANDY SHALE	17.0	814.0	
-246.0	MODESTO		LIMESTONE	1.0	831.0	
-247.0	MODESTO		GRAY SHALE	23.0	832.0	

-270.0	MODESTO		BLACK SHALE	2.0	855.0	BK SH & CO
-272.0	MODESTO		GRAY SHALE	7.0	857.0	
-279.0	MODESTO		SANDY SHALE	72.0	864.0	
-351.0	MODESTO		SANDSTONE	14.0	936.0	
-365.0	MODESTO		SANDY SHALE	10.0	950.0	
-375.0	MODESTO		SANDSTONE	34.0	960.0	
-409.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	994.0	
-414.0	MODESTO	WEST FRANKLIN	SANDY SHALE	11.0	999.0	
-425.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	1010.0	
-432.0	MODESTO		GRAY SHALE	23.0	1017.0	
-455.0	MODESTO		SANDY SHALE	30.0	1040.0	
-485.0	MODESTO		GRAY SHALE	63.0	1070.0	
-548.0	CARBONDALE	DANVILLE	COAL	4.5	1133.0	
-552.5	CARBONDALE		CALCAREOUS SHALE	11.2	1137.5	
-563.7	CARBONDALE		LIMESTONE	3.3	1148.7	
-567.0	CARBONDALE	JAMESTOWN	COAL	2.0	1152.0	
-569.0	CARBONDALE		DARK SHALE	1.5	1154.0	
-570.5	CARBONDALE	BRERETON	LIMESTONE	4.3	1155.5	
-574.8	CARBONDALE	ANNA	BLACK SHALE	3.6	1159.8	
-578.4	CARBONDALE	HERRIN	COAL	6.9	1163.4	
-585.3	CARBONDALE		GRAY SHALE	9.7	1170.3	
-595.0	CARBONDALE		GRAY SHALE	2.0	1180.0	
-597.0	CARBONDALE		DARK SHALE	2.8	1182.0	
-599.8	CARBONDALE		LIMESTONE	3.0	1184.8	
-602.8	CARBONDALE		SHALE	0.7	1187.8	
-603.5	CARBONDALE	ST. DAVID	LIMESTONE	2.5	1188.5	
-606.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	1191.0	
-607.0	CARBONDALE	SPRINGFIELD	COAL	3.8	1192.0	
-610.8	CARBONDALE		GRAY SHALE	2.4	1195.8	
-613.2	CARBONDALE		CALCAREOUS SHALE	3.8	1198.2	
-617.0	CARBONDALE		GRAY SHALE	8.0	1202.0	

MAPID: 07923261000C VERSION: 1

PROJECT: NCRDS92

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 17 QUARTERS/FOOTAGES: 76' S line, 33' W line
 QUADRANGLE: WOODBURY LONGITUDE: -88.353649 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.133187 DATE COLLECTED: 5 / 9 / 1980
 SURFACE ELEVATION (FT.): 592.0 LOGGED (FT.): 1440.0 LOG TYPE: Drillers Log
 SOURCE: MOBIL OIL CO. IG80-17-2C WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
592.0			CLAY	17.0	0.0	
575.0	MATTOON		DARK GRAY SHALE	2.7	17.0	
572.3	MATTOON		CALCAREOUS SANDSTONE	2.7	19.7	
569.6	MATTOON		SANDSTONE	17.6	22.4	
552.0	MATTOON		SANDY SHALE	60.0	40.0	
492.0	MATTOON		DARK GRAY SHALE	12.0	100.0	
480.0	MATTOON		BLACK SHALE	2.0	112.0	
478.0	MATTOON		GRAY SHALE	9.0	114.0	
469.0	MATTOON		LIMESTONE	1.0	123.0	
468.0	MATTOON		SANDSTONE	18.0	124.0	
450.0	MATTOON		GRAY SHALE	6.0	142.0	
444.0	MATTOON		SANDY SHALE	22.0	148.0	
422.0	MATTOON		GRAY SHALE	5.0	170.0	
417.0	MATTOON		LIMESTONE	1.0	175.0	
416.0	MATTOON		BLACK SHALE	4.0	176.0	
412.0	MATTOON		LIMESTONE	1.5	180.0	
410.5	MATTOON		BLACK SHALE	2.5	181.5	
408.0	MATTOON		LIMESTONE	1.2	184.0	
406.8	MATTOON		SHALE	0.8	185.2	
406.0	MATTOON		LIMESTONE	1.0	186.0	
405.0	MATTOON		CALCAREOUS SANDSTONE	5.0	187.0	
400.0	MATTOON		SANDSTONE	8.0	192.0	
392.0	MATTOON		SANDY SHALE	10.0	200.0	
382.0	MATTOON		DARK GRAY SHALE	18.5	210.0	
363.5	MATTOON		COAL	1.0	228.5	
362.5	MATTOON		CALCAREOUS SHALE	10.5	229.5	
352.0	MATTOON		DARK GRAY SHALE	15.0	240.0	
337.0	MATTOON		LIMESTONE	1.0	255.0	
336.0	MATTOON		BLACK SHALE	2.0	256.0	
334.0	MATTOON		DARK GRAY SHALE	5.5	258.0	
328.5	MATTOON		CALCAREOUS SHALE	10.5	263.5	
318.0	MATTOON		CALCAREOUS SANDSTONE	4.0	274.0	
314.0	MATTOON		SANDY SHALE	4.0	278.0	
310.0	MATTOON		BROWN SHALE	4.0	282.0	
306.0	MATTOON		SANDY SHALE	4.0	286.0	
302.0	MATTOON		GRAY SHALE	10.0	290.0	GY SH W/ SS STREAKS
292.0	MATTOON		SANDY SHALE	10.0	300.0	

282.0	MATTOON		CALCAREOUS SHALE	27.0	310.0	
255.0	MATTOON		SANDY SHALE	7.0	337.0	
248.0	MATTOON		SANDSTONE	13.0	344.0	
235.0	MATTOON		CALCAREOUS SANDSTONE	1.5	357.0	
233.5	MATTOON		SANDY SHALE	5.5	358.5	
228.0	MATTOON		DARK GRAY SHALE	11.0	364.0	
217.0	MATTOON		SANDY SHALE	5.0	375.0	
212.0	MATTOON		SANDY SHALE	7.0	380.0	
205.0	MATTOON		LIMESTONE	1.0	387.0	
204.0	MATTOON		DARK GRAY SHALE	45.0	388.0	
159.0	MATTOON		SANDSTONE	41.0	433.0	
118.0	MATTOON		DARK GRAY SHALE	36.0	474.0	
82.0	MATTOON		SANDY SHALE	10.0	510.0	
72.0	MATTOON		CALCAREOUS SANDSTONE	20.0	520.0	
52.0	MATTOON		SANDY SHALE	2.0	540.0	
50.0	MATTOON		SANDSTONE	10.0	542.0	
40.0	MATTOON		DARK GRAY SHALE	27.5	552.0	
12.5	MATTOON	COHN	COAL	2.0	579.5	
10.5	MATTOON		CALCAREOUS SHALE	6.0	581.5	
4.5	BOND	MILLERSVILLE	LIMESTONE	12.5	587.5	
-8.0	BOND		GRAY SHALE	7.0	600.0	
-15.0	BOND		GRAY SHALE	5.0	607.0	
-20.0	BOND		GRAY SILTSTONE	2.5	612.0	
-22.5	BOND		GRAY SHALE	75.5	614.5	
-98.0	BOND		SANDY SHALE	34.0	690.0	
-132.0	BOND		GRAY SHALE	6.0	724.0	
-138.0	BOND		COAL	2.5	730.0	
-140.5	BOND		GRAY SHALE	5.5	732.5	
-146.0	BOND		GRAY SHALE	16.0	738.0	GY SH W/ SS
-162.0	BOND		SANDY SHALE	21.0	754.0	
-183.0	BOND	CARTHAGE	LIMESTONE	5.4	775.0	
-188.4	MODESTO		SILTY SHALE	2.6	780.4	
-191.0	MODESTO		BLACK SHALE	1.5	783.0	
-192.5	MODESTO		GRAY SHALE	9.5	784.5	
-202.0	MODESTO		GRAY SHALE	6.0	794.0	
-208.0	MODESTO		SANDY SHALE	7.0	800.0	
-215.0	MODESTO		LIMESTONE	1.5	807.0	
-216.5	MODESTO		SANDY SHALE	5.0	808.5	
-221.5	MODESTO		CALCAREOUS SHALE	6.5	813.5	
-228.0	MODESTO		SANDY SHALE	20.0	820.0	
-248.0	MODESTO		BLACK SHALE	1.0	840.0	
-249.0	MODESTO		SANDY SHALE	6.0	841.0	
-255.0	MODESTO		SANDSTONE	6.0	847.0	
-261.0	MODESTO		CALCAREOUS SHALE	7.0	853.0	CALC SH W/ SS STREAKS
-268.0	MODESTO		SHALE	18.0	860.0	SH W/ SS STREAKS
-286.0	MODESTO		SANDSTONE	4.0	878.0	SS W/ LS

-290.0	MODESTO		SANDSTONE	38.0	882.0
-328.0	MODESTO		SILTY SANDSTONE	30.0	920.0
-358.0	MODESTO		SANDY SHALE	18.0	950.0
-376.0	MODESTO		UNDERCLAY	6.0	968.0
-382.0	MODESTO		SANDY SHALE	6.0	974.0
-388.0	MODESTO		GRAY SHALE	13.5	980.0
-401.5	MODESTO	WEST FRANKLIN	LIMESTONE	7.5	993.5
-409.0	MODESTO		SANDY SHALE	8.8	1001.0
-417.8	MODESTO		LIMESTONE	2.0	1009.8
-419.8	MODESTO		SANDY SHALE	68.2	1011.8
-488.0	MODESTO		GRAY SHALE	42.0	1080.0
-530.0	CARBONDALE	DANVILLE	COAL	3.0	1122.0
-533.0	CARBONDALE		GRAY SHALE	7.0	1125.0
-540.0	CARBONDALE		LIMESTONE	1.7	1132.0
-541.7	CARBONDALE	JAMESTOWN	COAL	2.7	1133.7
-544.4	CARBONDALE		DARK GRAY SHALE	3.1	1136.4
-547.5	CARBONDALE	BRERETON	LIMESTONE	6.0	1139.5
-553.5	CARBONDALE	ANNA	BLACK SHALE	2.5	1145.5
-556.0	CARBONDALE	HERRIN	COAL	5.5	1148.0
-561.5	CARBONDALE		UNDERCLAY	2.5	1153.5
-564.0	CARBONDALE		LIMESTONE	1.3	1156.0
-565.3	CARBONDALE		SANDY SHALE	2.7	1157.3
-568.0	CARBONDALE		CALCAREOUS SHALE	2.5	1160.0
-570.5	CARBONDALE		GRAY SHALE	3.0	1162.5
-573.5	CARBONDALE		LIMESTONE	0.3	1165.5
-573.8	CARBONDALE		GRAY SHALE	6.2	1165.8
-580.0	CARBONDALE	BRIAR HILL	COAL	2.0	1172.0
-582.0	CARBONDALE	TURNER MINE	BLACK SHALE	6.0	1174.0
-588.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1180.0
-592.5	CARBONDALE		SANDY SHALE	7.5	1184.5
-600.0	CARBONDALE		CALCAREOUS SHALE	4.0	1192.0
-604.0	CARBONDALE		SANDY SHALE	24.0	1196.0
-628.0	CARBONDALE		GRAY SHALE	36.0	1220.0
-664.0	CARBONDALE		CALCAREOUS SHALE	3.0	1256.0
-667.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	1259.0
-669.0	CARBONDALE		SANDY SHALE	53.0	1261.0
-722.0	CARBONDALE	SURVANT - UPPER	COAL	1.5	1314.0
-723.5	CARBONDALE		SANDY SHALE	22.0	1315.5
-745.5	CARBONDALE	SURVANT - LOWER	COAL	0.7	1337.5
-746.2	CARBONDALE		SANDY SHALE	6.8	1338.2
-753.0	CARBONDALE		CALCAREOUS SHALE	5.0	1345.0
-758.0	CARBONDALE		SANDY SHALE	31.0	1350.0
-789.0	CARBONDALE	COLCHESTER	COAL	3.0	1381.0
-792.0	CARBONDALE		GRAY SHALE	10.0	1384.0
-802.0	SPOON		SANDY SHALE	27.0	1394.0
-829.0	SPOON		LIMESTONE	1.0	1421.0
-830.0	SPOON	SEELYVILLE	COAL	1.0	1422.0
-831.0	SPOON		SANDY SHALE	13.0	1423.0

-844.0	SPOON	SANDSTONE	2.0	1436.0
-846.0	SPOON	SHALE	2.0	1438.0

MAPID: 07900002000C	VERSION: 1	PROJECT: CGT-ECILL		
COUNTY: JASPER	TWP/RNG: 8N 8E	SECTION: 24	QUARTERS/FOOTAGES: NW NW	
QUADRANGLE: WOODBURY	LONGITUDE: -88.277131	GEOLOGIST: C TREWORGY		
CONFIDENTIAL: N	LATITUDE: 39.126328	DATE COLLECTED:		
SURFACE ELEVATION (FT.): 575.0	LOGGED (FT.): 1300.0	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
-235.0	BOND	CARTHAGE	LIMESTONE	10.0	810.0
-422.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	997.0
-569.0	CARBONDALE	DANVILLE	COAL	2.0	1144.0
-600.0	CARBONDALE	HERRIN	COAL	3.5	1175.0
-636.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1211.0
-725.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1300.0

MAPID: 07923132000C VERSION: 1

PROJECT: NCRDS92

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 24 QUARTERS/FOOTAGES: 60' N line, 786' E line
 QUADRANGLE: WOODBURY LONGITUDE: -88.263493 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.127073 DATE COLLECTED: 9 / 4 / 1979
 SURFACE ELEVATION (FT.): 580.0 LOGGED (FT.): 1435.0 LOG TYPE: Drillers Log
 SOURCE: MOBIL OIL CO. IG7924-10C WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
580.0			CLAY	36.0	0.0	
544.0	MATTOON		DARK GRAY SHALE	24.0	36.0	
520.0	MATTOON		SANDY SHALE	20.0	60.0	
500.0	MATTOON		SILTY SHALE	20.0	80.0	
480.0	MATTOON		GRAY SHALE	15.0	100.0	
465.0	MATTOON		BLACK SHALE	0.5	115.0	
464.5	MATTOON		GRAY SHALE	5.5	115.5	
459.0	MATTOON		LIMESTONE	3.0	121.0	
456.0	MATTOON		GRAY SHALE	26.0	124.0	
430.0	MATTOON		DARK GRAY SHALE	15.0	150.0	
415.0	MATTOON		BLACK SHALE	3.0	165.0	BK SH & CO
412.0	MATTOON		DARK GRAY SHALE	11.0	168.0	
401.0	MATTOON		SANDSTONE	3.0	179.0	
398.0	MATTOON		SILTY SHALE	12.5	182.0	
385.5	MATTOON		LIMESTONE	1.2	194.5	
384.3	MATTOON		SANDY SHALE	14.3	195.7	
370.0	MATTOON		SANDSTONE	18.0	210.0	
352.0	MATTOON		LIMESTONE	3.0	228.0	LS W/ SOME SS
349.0	MATTOON		SANDSTONE	16.8	231.0	
332.2	MATTOON		LIMESTONE	1.2	247.8	
331.0	MATTOON		CALCAREOUS SHALE	7.0	249.0	
324.0	MATTOON		LIMESTONE	2.0	256.0	
322.0	MATTOON		CALCAREOUS SHALE	6.0	258.0	
316.0	MATTOON		GRAY SHALE	12.0	264.0	
304.0	MATTOON		SANDY SHALE	7.0	276.0	
297.0	MATTOON		SANDSTONE	12.7	283.0	
284.3	MATTOON		CALCAREOUS SANDSTONE	1.3	295.7	
283.0	MATTOON		SANDSTONE	7.0	297.0	SS W/ SHALE STREAKS
276.0	MATTOON		BROWN SHALE	10.0	304.0	
266.0	MATTOON		DARK GRAY SHALE	36.0	314.0	
230.0	MATTOON		GRAY SHALE	16.0	350.0	
214.0	MATTOON		CALCAREOUS SHALE	3.0	366.0	
211.0	MATTOON		GRAY SHALE	7.0	369.0	
204.0	MATTOON		SANDY SHALE	4.0	376.0	
200.0	MATTOON		GRAY SHALE	4.0	380.0	GY SH & SS
196.0	MATTOON		SANDSTONE	32.0	384.0	
164.0	MATTOON		LIMESTONE	1.0	416.0	
163.0	MATTOON		BLACK SHALE	1.0	417.0	

162.0	MATTOON		SANDSTONE	20.0	418.0	
142.0	MATTOON		DARK GRAY SHALE	5.0	438.0	
137.0	MATTOON		GRAY SHALE	3.0	443.0	
134.0	MATTOON		SANDY SHALE	8.0	446.0	
126.0	MATTOON		SANDSTONE	12.0	454.0	
114.0	MATTOON		SANDY SHALE	40.0	466.0	
74.0	MATTOON		DARK GRAY SHALE	10.0	506.0	
64.0	MATTOON		BLACK SHALE	3.0	516.0	
61.0	MATTOON		GRAY SHALE	12.0	519.0	
49.0	MATTOON		CALCAREOUS SHALE	7.0	531.0	
42.0	MATTOON		CALCAREOUS SANDSTONE	2.0	538.0	
40.0	MATTOON		SANDSTONE	5.0	540.0	SS W/ SHALE STREAKS
35.0	MATTOON		SANDY SHALE	11.0	545.0	
24.0	MATTOON		GRAY SHALE	9.0	556.0	
15.0	MATTOON		COAL	2.0	565.0	
13.0	MATTOON		GRAY SHALE	30.0	567.0	
-17.0	MATTOON		CALCAREOUS SHALE	5.0	597.0	
-22.0	BOND	MILLERSVILLE	LIMESTONE	4.2	602.0	
-26.2	BOND		GRAY SHALE	19.8	606.2	
-46.0	BOND		CALCAREOUS SHALE	2.0	626.0	
-48.0	BOND		CALCAREOUS SANDSTONE	2.0	628.0	
-50.0	BOND		SANDSTONE	6.0	630.0	
-56.0	BOND		SANDY SHALE	24.0	636.0	
-80.0	BOND		SANDSTONE	10.0	660.0	
-90.0	BOND		SANDY SHALE	38.0	670.0	
-128.0	BOND		GRAY SHALE	7.0	708.0	
-135.0	BOND		SANDY SHALE	23.0	715.0	
-158.0	BOND		COAL	2.0	738.0	BK SH & CO
-160.0	BOND		DARK GRAY SHALE	3.0	740.0	
-163.0	BOND		SANDY SHALE	11.0	743.0	
-174.0	BOND		SANDY SHALE	36.0	754.0	
-210.0	BOND		SANDSTONE	8.0	790.0	
-218.0	BOND	CARTHAGE	LIMESTONE	4.2	798.0	
-222.2	MODESTO		BLACK SHALE	4.8	802.2	
-227.0	MODESTO		DARK GRAY SHALE	8.0	807.0	
-235.0	MODESTO		GRAY SHALE	9.0	815.0	
-244.0	MODESTO		CALCAREOUS SHALE	12.0	824.0	
-256.0	MODESTO		GRAY SHALE	62.0	836.0	
-318.0	MODESTO		SANDSTONE	14.0	898.0	
-332.0	MODESTO		SANDY SHALE	26.0	912.0	
-358.0	MODESTO		SANDSTONE	2.0	938.0	
-360.0	MODESTO		SANDY SHALE	7.0	940.0	
-367.0	MODESTO		SHALE	7.8	947.0	
-374.8	MODESTO	WEST FRANKLIN	LIMESTONE	4.2	954.8	
-379.0	MODESTO	WEST FRANKLIN	GRAY SHALE	2.5	959.0	
-381.5	MODESTO	WEST FRANKLIN	LIMESTONE	5.5	961.5	

-387.0	MODESTO		DARK GRAY SHALE	3.0	967.0
-390.0	MODESTO		SHALE	4.0	970.0
-394.0	MODESTO		GRAY SHALE	4.0	974.0
-398.0	MODESTO		CALCAREOUS SHALE	3.0	978.0
-401.0	MODESTO		DARK GRAY SHALE	43.0	981.0
-444.0	MODESTO		GRAY SHALE	6.0	1024.0
-450.0	MODESTO		SILTY SHALE	80.0	1030.0
-530.0	CARBONDALE	DANVILLE	COAL	3.5	1110.0
-533.5	CARBONDALE		GRAY SHALE	5.5	1113.5
-539.0	CARBONDALE		LIMESTONE	0.5	1119.0
-539.5	CARBONDALE		GRAY SHALE	3.5	1119.5
-543.0	CARBONDALE		LIMESTONE	3.0	1123.0
-546.0	CARBONDALE		GRAY SHALE	3.0	1126.0
-549.0	CARBONDALE		LIMESTONE	2.5	1129.0
-551.5	CARBONDALE	JAMESTOWN	COAL	1.5	1131.5
-553.0	CARBONDALE		CALCAREOUS SHALE	2.0	1133.0
-555.0	CARBONDALE	BRERETON	LIMESTONE	2.8	1135.0
-557.8	CARBONDALE	ANNA	BLACK SHALE	5.2	1137.8
-563.0	CARBONDALE	HERRIN	COAL	5.5	1143.0
-568.5	CARBONDALE		GRAY SHALE	2.5	1148.5
-571.0	CARBONDALE		LIMESTONE	1.5	1151.0
-572.5	CARBONDALE		GRAY SHALE	20.0	1152.5
-592.5	CARBONDALE	BRIAR HILL	COAL	1.0	1172.5
-593.5	CARBONDALE		DARK GRAY SHALE	2.5	1173.5
-596.0	CARBONDALE		CALCAREOUS SHALE	2.5	1176.0
-598.5	CARBONDALE	ST. DAVID	LIMESTONE	1.0	1178.5
-599.5	CARBONDALE		DARK GRAY SHALE	1.0	1179.5
-600.5	CARBONDALE	SPRINGFIELD	COAL	4.0	1180.5
-604.5	CARBONDALE		GRAY SHALE	1.5	1184.5
-606.0	CARBONDALE		LIMESTONE	4.5	1186.0
-610.5	CARBONDALE		GRAY SHALE	66.0	1190.5
-676.5	CARBONDALE		BLACK SHALE	3.0	1256.5
-679.5	CARBONDALE	HANOVER	LIMESTONE	2.5	1259.5
-682.0	CARBONDALE	EXCELLO	BLACK SHALE	2.0	1262.0
-684.0	CARBONDALE	HOUCHIN CREEK	COAL	2.0	1264.0
-686.0	CARBONDALE		GRAY SHALE	55.5	1266.0
-741.5	CARBONDALE	SURVANT	COAL	1.0	1321.5
-742.5	CARBONDALE		GRAY SHALE	18.5	1322.5
-761.0	CARBONDALE		SANDSTONE	6.0	1341.0
-767.0	CARBONDALE		GRAY SHALE	2.0	1347.0
-769.0	CARBONDALE		SANDSTONE	3.0	1349.0
-772.0	CARBONDALE		GRAY SHALE	34.0	1352.0
-806.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.2	1386.0
-808.2	CARBONDALE	COLCHESTER	COAL	1.8	1388.2
-810.0	SPOON		GRAY SHALE	9.5	1390.0
-819.5	SPOON		LIMESTONE	2.0	1399.5
-821.5	SPOON		GRAY SHALE	2.5	1401.5
-824.0	SPOON		BLACK SHALE	5.0	1404.0

-829.0	SPOON	SEELYVILLE	COAL	6.0	1409.0	
-835.0	SPOON		GRAY SHALE	10.0	1415.0	
-845.0	SPOON		LIMESTONE	2.0	1425.0	
-847.0	SPOON		DARK GRAY SHALE	3.0	1427.0	DGY SH W/ COAL PARTINGS
-850.0	SPOON		GRAY SHALE	5.0	1430.0	

MAPID: 07923204000C VERSION: 1

PROJECT: NCRDS92

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 25 QUARTERS/FOOTAGES: 2073' N line, 57' W line
 QUADRANGLE: WHEELER LONGITUDE: -88.279092 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.107788 DATE COLLECTED: 3 / 31 / 1980
 SURFACE ELEVATION (FT.): 585.0 LOGGED (FT.): 1520.0 LOG TYPE: Drillers Log
 SOURCE: MOBIL OIL CO. IG80-25-1C WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
585.0			CLAY	20.0	0.0	
565.0	MATTOON		DARK SHALE	17.0	20.0	DK SH W/ SANDY STREAKS
548.0	MATTOON		BLACK SHALE	1.0	37.0	
547.0	MATTOON		DARK SHALE	5.0	38.0	
542.0	MATTOON		GRAY SHALE	12.0	43.0	
530.0	MATTOON		LIMESTONE	3.0	55.0	
527.0	MATTOON		SANDSTONE	12.0	58.0	
515.0	MATTOON		DARK SHALE	59.0	70.0	
456.0	MATTOON		DARK SHALE	23.0	129.0	
433.0	MATTOON		BLACK SHALE	2.0	152.0	
431.0	MATTOON		SANDY SHALE	18.0	154.0	
413.0	MATTOON		SANDY SHALE	3.0	172.0	
410.0	MATTOON		SANDSTONE	15.0	175.0	
395.0	MATTOON		GRAY SHALE	3.0	190.0	
392.0	MATTOON		COAL	1.0	193.0	
391.0	MATTOON		GRAY SHALE	21.0	194.0	
370.0	MATTOON		LIMESTONE	0.5	215.0	
369.5	MATTOON		BLACK SHALE	3.5	215.5	
366.0	MATTOON		GRAY SHALE	5.0	219.0	
361.0	MATTOON		CALCAREOUS SHALE	18.0	224.0	
343.0	MATTOON		GRAY SHALE	22.0	242.0	
321.0	MATTOON		CALCAREOUS SHALE	17.0	264.0	
304.0	MATTOON		LIMESTONE	1.0	281.0	
303.0	MATTOON		GRAY SHALE	9.5	282.0	
293.5	MATTOON		LIMESTONE	0.5	291.5	
293.0	MATTOON		CALCAREOUS SHALE	5.0	292.0	
288.0	MATTOON		BROWN SHALE	2.0	297.0	
286.0	MATTOON		SANDY SHALE	31.0	299.0	
255.0	MATTOON		GRAY SHALE	41.0	330.0	
214.0	MATTOON		SANDY SHALE	12.0	371.0	
202.0	MATTOON		SANDSTONE	14.0	383.0	
188.0	MATTOON		GRAY SHALE	43.0	397.0	
145.0	MATTOON		CALCAREOUS SHALE	22.0	440.0	
123.0	MATTOON		SANDSTONE	9.0	462.0	SS W/ SH STREAKS
114.0	MATTOON		SANDY SHALE	15.0	471.0	
99.0	MATTOON		SANDSTONE	15.0	486.0	SS & SH
84.0	MATTOON		SANDY SHALE	45.0	501.0	
39.0	MATTOON		GRAY SHALE	29.0	546.0	
10.0	MATTOON		CALCAREOUS SHALE	3.0	575.0	

7.0	MATTOON		LIMESTONE	1.0	578.0	
6.0	MATTOON		GRAY SHALE	6.0	579.0	
0.0	MATTOON		CALCAREOUS SHALE	4.0	585.0	
-4.0	MATTOON		GRAY SHALE	61.0	589.0	
-65.0	BOND	MILLERSVILLE	LIMESTONE	2.5	650.0	
-67.5	BOND	MILLERSVILLE	LIMESTONE	5.5	652.5	
-73.0	BOND		CALCAREOUS SHALE	2.0	658.0	
-75.0	BOND		GRAY SHALE	20.0	660.0	
-95.0	BOND		SANDY SHALE	46.0	680.0	
-141.0	BOND		GRAY SHALE	20.0	726.0	
-161.0	BOND		COAL	1.0	746.0	
-162.0	BOND		GRAY SHALE	40.0	747.0	
-202.0	BOND		COAL	1.0	787.0	
-203.0	BOND		SANDY SHALE	7.5	788.0	
-210.5	BOND		LIMESTONE	2.0	795.5	
-212.5	BOND		SANDY SHALE	7.5	797.5	
-220.0	BOND		SANDSTONE	15.0	805.0	
-235.0	BOND		SANDY SHALE	20.0	820.0	
-255.0	BOND		GRAY SHALE	2.5	840.0	
-257.5	BOND	CARTHAGE	LIMESTONE	7.0	842.5	
-264.5	MODESTO		DARK GRAY SHALE	3.5	849.5	
-268.0	MODESTO		BLACK SHALE	1.0	853.0	BK SH W/ COAL PARTINGS
-269.0	MODESTO		GRAY SHALE	18.0	854.0	
-287.0	MODESTO		LIMESTONE	0.5	872.0	
-287.5	MODESTO		GRAY SHALE	24.5	872.5	
-312.0	MODESTO		LIMESTONE	1.0	897.0	
-313.0	MODESTO		GRAY SHALE	8.0	898.0	
-321.0	MODESTO		CALCAREOUS SHALE	20.0	906.0	
-341.0	MODESTO		SANDY SHALE	14.0	926.0	
-355.0	MODESTO		GRAY SHALE	48.0	940.0	
-403.0	MODESTO		CALCAREOUS SHALE	12.0	988.0	
-415.0	MODESTO		GRAY SHALE	12.5	1000.0	
-427.5	MODESTO	WEST FRANKLIN	LIMESTONE	3.7	1012.5	
-431.2	MODESTO		GRAY SHALE	2.8	1016.2	
-434.0	MODESTO		LIMESTONE	7.0	1019.0	
-441.0	MODESTO		GRAY SHALE	9.0	1026.0	
-450.0	MODESTO		CALCAREOUS SHALE	12.0	1035.0	
-462.0	MODESTO		LIMESTONE	2.0	1047.0	
-464.0	MODESTO		CALCAREOUS SHALE	5.0	1049.0	
-469.0	MODESTO		SANDY SHALE	6.0	1054.0	
-475.0	MODESTO		GRAY SHALE	36.0	1060.0	
-511.0	MODESTO		CALCAREOUS SHALE	34.0	1096.0	
-545.0	MODESTO		GRAY SHALE	45.5	1130.0	
-590.5	CARBONDALE	DANVILLE	COAL	3.1	1175.5	
-593.6	CARBONDALE		GRAY SHALE	7.4	1178.6	
-601.0	CARBONDALE		CALCAREOUS SHALE	12.5	1186.0	
-613.5	CARBONDALE	CONANT	LIMESTONE	1.0	1198.5	
-614.5	CARBONDALE	JAMESTOWN	COAL	1.0	1199.5	

-615.5	CARBONDALE		GRAY SHALE	1.5	1200.5
-617.0	CARBONDALE	BRERETON	LIMESTONE	6.5	1202.0
-623.5	CARBONDALE	ANNA	BLACK SHALE	0.5	1208.5
-624.0	CARBONDALE	HERRIN	COAL	6.0	1209.0
-630.0	CARBONDALE		UNDERCLAY	3.0	1215.0
-633.0	CARBONDALE		GRAY SHALE	4.0	1218.0
-637.0	CARBONDALE		CALCAREOUS SHALE	21.7	1222.0
-658.7	CARBONDALE	BRIAR HILL	COAL	2.3	1243.7
-661.0	CARBONDALE		DARK SHALE	3.0	1246.0
-664.0	CARBONDALE	ST. DAVID	LIMESTONE	0.5	1249.0
-664.5	CARBONDALE	TURNER MINE	BLACK SHALE	0.8	1249.5
-665.3	CARBONDALE	SPRINGFIELD	COAL	4.7	1250.3
-670.0	CARBONDALE		UNDERCLAY	3.0	1255.0
-673.0	CARBONDALE		CALCAREOUS SHALE	2.0	1258.0
-675.0	CARBONDALE		GRAY SHALE	15.0	1260.0
-690.0	CARBONDALE		CALCAREOUS SHALE	15.0	1275.0
-705.0	CARBONDALE		GRAY SHALE	30.0	1290.0
-735.0	CARBONDALE		GRAY SHALE	14.0	1320.0
-749.0	CARBONDALE		LIMESTONE	4.5	1334.0
-753.5	CARBONDALE		BROWN SHALE	2.0	1338.5
-755.5	CARBONDALE		GRAY SHALE	18.5	1340.5
-774.0	CARBONDALE		CALCAREOUS SHALE	5.0	1359.0
-779.0	CARBONDALE		GRAY SHALE	4.0	1364.0
-783.0	CARBONDALE		SANDY SHALE	10.0	1368.0
-793.0	CARBONDALE		GRAY SHALE	22.0	1378.0
-815.0	CARBONDALE		CALCAREOUS SHALE	25.0	1400.0
-840.0	CARBONDALE	SURVANT	COAL	0.5	1425.0
-840.5	CARBONDALE		GRAY SHALE	40.5	1425.5
-881.0	CARBONDALE		BLACK SHALE	2.0	1466.0
-883.0	CARBONDALE		DARK GRAY SHALE	1.0	1468.0
-884.0	CARBONDALE	COLCHESTER	COAL	2.0	1469.0
-886.0	SPOON		UNDERCLAY	3.0	1471.0
-889.0	SPOON		GRAY SHALE	6.0	1474.0
-895.0	SPOON		DARK GRAY SHALE	7.0	1480.0
-902.0	SPOON		BLACK SHALE	2.0	1487.0
-904.0	SPOON	SEELYVILLE	COAL	7.5	1489.0
-911.5	SPOON		SANDSTONE	1.5	1496.5
-913.0	SPOON		SANDY SHALE	7.5	1498.0
-920.5	SPOON		COAL	1.5	1505.5
-922.0	SPOON		SANDY SHALE	13.0	1507.0

MAPID: 07900937000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 26 QUARTERS/FOOTAGES: NW NW NE
QUADRANGLE: WHEELER LONGITUDE: -88.28742 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.113153 DATE COLLECTED:
SURFACE ELEVATION (FT.): 584.0 LOGGED (FT.): 1478.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-251.0	BOND	CARTHAGE	LIMESTONE	7.0	835.0
-429.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	1013.0
-576.0	CARBONDALE	DANVILLE	COAL	2.5	1160.0
-611.0	CARBONDALE	HERRIN	COAL	4.5	1195.0
-652.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1236.0
-736.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1320.0
-866.0	CARBONDALE	COLCHESTER	COAL	-	1450.0
-888.0	SPOON	SEELYVILLE	COAL	6.0	1472.0

MAPID: 07900565000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 27 QUARTERS/FOOTAGES: SE SE SE
QUADRANGLE: WHEELER LONGITUDE: -88.299102 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.101168 DATE COLLECTED:
SURFACE ELEVATION (FT.): 594.0 LOGGED (FT.): 1475.0 LOG TYPE: Electric Log
SOURCE: WELL TYPE: Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-224.0	BOND	CARTHAGE	LIMESTONE	6.0	818.0
-455.0	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	1049.0
-569.0	CARBONDALE	DANVILLE	COAL	2.5	1163.0
-602.0	CARBONDALE	HERRIN	COAL	5.0	1196.0
-639.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1233.0
-726.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1320.0
-846.0	CARBONDALE	COLCHESTER	COAL	-	1440.0
-876.0	SPOON	SEELYVILLE	COAL	5.0	1470.0

MAPID: 07900564000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 28 QUARTERS/FOOTAGES: NE NE NW

QUADRANGLE: WHEELER LONGITUDE: -88.327226 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.115835 DATE COLLECTED:

SURFACE ELEVATION (FT.): 591.0 LOGGED (FT.): 1479.5 LOG TYPE: Electric Log

SOURCE: WELL TYPE: Oil and Gas Test

COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-254.0	BOND	CARTHAGE	LIMESTONE	4.0	845.0
-459.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	1050.0
-578.0	CARBONDALE	DANVILLE	COAL	2.0	1169.0
-608.0	CARBONDALE	HERRIN	COAL	5.0	1199.0
-642.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1233.0
-730.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1321.0
-855.0	CARBONDALE	COLCHESTER	COAL	-	1446.0
-885.0	SPOON	SEELYVILLE	COAL	3.5	1476.0

MAPID: 07922860000C VERSION: 1

PROJECT: NCRDS92

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 28 QUARTERS/FOOTAGES: 162' N line, 145' E line
 QUADRANGLE: WHEELER LONGITUDE: -88.317296 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.115638 DATE COLLECTED: 7 / 26 / 1979
 SURFACE ELEVATION (FT.): 588.0 LOGGED (FT.): 1246.5 LOG TYPE: Drillers Log
 SOURCE: MOBIL OIL CO. IG79-28-7C WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
588.0			CLAY	18.0	0.0	
570.0	MATTOON		GRAY SHALE	16.0	18.0	
554.0	MATTOON		SANDY SHALE	6.0	34.0	
548.0	MATTOON		SANDSTONE	10.0	40.0	
538.0	MATTOON		GRAY SHALE	10.0	50.0	
528.0	MATTOON		SANDSTONE	17.0	60.0	
511.0	MATTOON		GRAY SHALE	3.0	77.0	
508.0	MATTOON		SANDSTONE	12.0	80.0	
496.0	MATTOON		SANDY SHALE	24.0	92.0	
472.0	MATTOON		GRAY SHALE	19.0	116.0	
453.0	MATTOON		LIMESTONE	1.4	135.0	
451.6	MATTOON		SANDSTONE	3.6	136.4	
448.0	MATTOON		GRAY SHALE	4.0	140.0	
444.0	MATTOON		SANDSTONE	16.0	144.0	
428.0	MATTOON		SANDY SHALE	10.0	160.0	
418.0	MATTOON		BLACK SHALE	6.0	170.0	BK SH W/ COAL PARTINGS
412.0	MATTOON		LIMESTONE	2.0	176.0	
410.0	MATTOON		SANDY SHALE	11.0	178.0	
399.0	MATTOON		GRAY SHALE	3.0	189.0	
396.0	MATTOON		DARK SHALE	4.0	192.0	
392.0	MATTOON		BLACK SHALE	4.0	196.0	
388.0	MATTOON		GRAY SHALE	3.0	200.0	
385.0	MATTOON		LIMESTONE	2.0	203.0	
383.0	MATTOON		BLACK SHALE	3.0	205.0	
380.0	MATTOON		SANDSTONE	3.0	208.0	SHALEY SS
377.0	MATTOON		CALCAREOUS SANDSTONE	2.0	211.0	
375.0	MATTOON		SANDSTONE	2.0	213.0	
373.0	MATTOON		GRAY SHALE	25.0	215.0	
348.0	MATTOON		COAL	1.5	240.0	
346.5	MATTOON		SANDSTONE	3.5	241.5	
343.0	MATTOON		GRAY SHALE	11.0	245.0	
332.0	MATTOON		GRAY SHALE	5.0	256.0	
327.0	MATTOON		CALCAREOUS SANDSTONE	2.0	261.0	
325.0	MATTOON		SANDY SHALE	11.0	263.0	
314.0	MATTOON		BLACK SHALE	2.0	274.0	
312.0	MATTOON		SANDY SHALE	19.0	276.0	
293.0	MATTOON		SANDSTONE	3.0	295.0	
290.0	MATTOON		SANDSTONE	22.0	298.0	

268.0	MATTOON		DARK SHALE	6.0	320.0	
262.0	MATTOON		SANDY SHALE	24.0	326.0	
238.0	MATTOON		GRAY SHALE	14.0	350.0	
224.0	MATTOON		SANDSTONE	16.0	364.0	
208.0	MATTOON		SANDSTONE	7.0	380.0	SHALEY SS
201.0	MATTOON		SANDSTONE	7.0	387.0	SS & LS
194.0	MATTOON		CALCAREOUS SHALE	8.5	394.0	
185.5	MATTOON		SANDSTONE	5.5	402.5	
180.0	MATTOON		GRAY SHALE	48.0	408.0	
132.0	MATTOON		SANDY SHALE	8.0	456.0	
124.0	MATTOON		SANDSTONE	11.0	464.0	
113.0	MATTOON		SANDSTONE	17.0	475.0	SHALEY SS
96.0	MATTOON		SANDY SHALE	23.0	492.0	
73.0	MATTOON		GRAY SHALE	41.0	515.0	
32.0	MATTOON		CALCAREOUS SANDSTONE	2.0	556.0	
30.0	MATTOON		CALCAREOUS SHALE	11.0	558.0	
19.0	MATTOON		COAL	1.0	569.0	
18.0	MATTOON		GRAY SHALE	8.0	570.0	
10.0	MATTOON		CALCAREOUS SHALE	26.0	578.0	
-16.0	MATTOON		GRAY SHALE	8.0	604.0	
-24.0	MATTOON		CALCAREOUS SHALE	2.0	612.0	
-26.0	BOND	MILLERSVILLE	LIMESTONE	1.5	614.0	
-27.5	BOND	MILLERSVILLE	GRAY SHALE	3.2	615.5	
-30.7	BOND	MILLERSVILLE	LIMESTONE	4.3	618.7	
-35.0	BOND		SANDY SHALE	14.5	623.0	
-49.5	BOND		GRAY SHALE	5.5	637.5	
-55.0	BOND		CALCAREOUS SHALE	13.0	643.0	
-68.0	BOND		CALCAREOUS SANDSTONE	2.0	656.0	
-70.0	BOND		SANDY SHALE	12.0	658.0	
-82.0	BOND		SANDSTONE	28.0	670.0	
-110.0	BOND		SANDY SHALE	12.0	698.0	
-122.0	BOND		COAL	1.0	710.0	
-123.0	BOND		SANDY SHALE	19.0	711.0	
-142.0	BOND		GRAY SHALE	19.0	730.0	
-161.0	BOND		COAL	1.5	749.0	
-162.5	BOND		GRAY SHALE	5.5	750.5	
-168.0	BOND		SANDY SHALE	4.0	756.0	
-172.0	BOND		SANDSTONE	12.0	760.0	
-184.0	BOND		SANDY SHALE	19.0	772.0	
-203.0	BOND	CARTHAGE	LIMESTONE	6.0	791.0	
-209.0	MODESTO		DARK GRAY SHALE	2.5	797.0	
-211.5	MODESTO		SANDY SHALE	56.5	799.5	
-268.0	MODESTO		BLACK SHALE	3.0	856.0	
-271.0	MODESTO		GRAY SHALE	7.0	859.0	
-278.0	MODESTO		SANDY SHALE	10.0	866.0	
-288.0	MODESTO		SANDSTONE	14.0	876.0	

-302.0	MODESTO		SANDSTONE	34.0	890.0	
-336.0	MODESTO		SANDSTONE	6.0	924.0	SHALEY SS
-342.0	MODESTO		SANDSTONE	28.0	930.0	SS & SH
-370.0	MODESTO		SANDSTONE	22.0	958.0	SHALEY SS
-392.0	MODESTO		SANDSTONE	27.0	980.0	SS & SH
-419.0	MODESTO		GRAY SHALE	16.0	1007.0	
-435.0	MODESTO		LIMESTONE	2.0	1023.0	
-437.0	MODESTO		GRAY SHALE	11.0	1025.0	
-448.0	MODESTO		CALCAREOUS SHALE	4.0	1036.0	
-452.0	MODESTO		SANDY SHALE	40.0	1040.0	
-492.0	MODESTO		GRAY SHALE	65.0	1080.0	
-557.0	CARBONDALE	DANVILLE	COAL	4.0	1145.0	
-561.0	CARBONDALE		GRAY SHALE	3.0	1149.0	
-564.0	CARBONDALE		GRAY SHALE	3.8	1152.0	
-567.8	CARBONDALE		GRAY SHALE	4.7	1155.8	
-572.5	CARBONDALE		CALCAREOUS SHALE	5.0	1160.5	
-577.5	CARBONDALE		GRAY SHALE	4.1	1165.5	
-581.6	CARBONDALE		LIMESTONE	0.9	1169.6	
-582.5	CARBONDALE		FOSSILIFEROUS LIMESTONE	2.3	1170.5	
-584.8	CARBONDALE		DARK GRAY SHALE	0.7	1172.8	
-585.5	CARBONDALE	JAMESTOWN	COAL	1.5	1173.5	
-587.0	CARBONDALE		SHALE	1.0	1175.0	
-588.0	CARBONDALE	BRERETON	LIMESTONE	11.0	1176.0	
-599.0	CARBONDALE	ANNA	BLACK SHALE	3.0	1187.0	
-602.0	CARBONDALE	HERRIN	COAL	7.5	1190.0	
-609.5	CARBONDALE		UNDERCLAY	1.5	1197.5	
-611.0	CARBONDALE		GRAY SHALE	9.5	1199.0	
-620.5	CARBONDALE		DARK GRAY SHALE	8.8	1208.5	
-629.3	CARBONDALE		BLACK SHALE	0.7	1217.3	
-630.0	CARBONDALE		BLACK SHALE	4.0	1218.0	
-634.0	CARBONDALE	ST. DAVID	LIMESTONE	7.5	1222.0	
-641.5	CARBONDALE	TURNER MINE	BLACK SHALE	1.5	1229.5	
-643.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1231.0	
-647.5	CARBONDALE		UNDERCLAY	1.5	1235.5	
-649.0	CARBONDALE		LIMESTONE	2.0	1237.0	
-651.0	CARBONDALE		SANDSTONE	7.5	1239.0	

MAPID: 07900277000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 29 QUARTERS/FOOTAGES: 330' N line, 660' W line of NE SW
QUADRANGLE: WHEELER LONGITUDE: -88.347054 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.109807 DATE COLLECTED:
SURFACE ELEVATION (FT.): 599.0 LOGGED (FT.): 1389.0 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	BOND	CARTHAGE	LIMESTONE	6.0	784.0
-397.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	996.0
-515.0	CARBONDALE	DANVILLE	COAL	3.5	1114.0
-533.0	CARBONDALE	HERRIN	COAL	6.0	1132.0
-565.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1164.0
-641.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1240.0
-757.0	CARBONDALE	COLCHESTER	COAL	-	1356.0
-786.0	SPOON	SEELYVILLE	COAL	4.0	1385.0

MAPID: 07901376000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 32 QUARTERS/FOOTAGES: NE SE NE
QUADRANGLE: WHEELER LONGITUDE: -88.336539 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.098201 DATE COLLECTED:
SURFACE ELEVATION (FT.): 614.0 LOGGED (FT.): 1444.0 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	BOND	CARTHAGE	LIMESTONE	5.0	815.0
-406.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	1020.0
-536.0	CARBONDALE	DANVILLE	COAL	2.0	1150.0
-561.0	CARBONDALE	HERRIN	COAL	5.0	1175.0
-594.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1208.0
-688.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1302.0
-799.0	CARBONDALE	COLCHESTER	COAL	-	1413.0
-826.0	SPOON	SEELYVILLE	COAL	4.0	1440.0

MAPID: 07922861000C VERSION: 1

PROJECT: NCRDS92

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 32 QUARTERS/FOOTAGES: 2530' S line, 2523' W line

QUADRANGLE: WHEELER LONGITUDE: -88.345165 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.095653 DATE COLLECTED: 8 / 9 / 1979

SURFACE ELEVATION (FT.): 600.0 LOGGED (FT.): 1440.0 LOG TYPE: Drillers Log

SOURCE: MOBIL OIL CO. IG-79-32-6 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
600.0			CLAY	12.0	0.0	
588.0	MATTOON		SILTSTONE	8.0	12.0	
580.0	MATTOON		SANDSTONE	6.0	20.0	
574.0	MATTOON		DARK SHALE	14.0	26.0	
560.0	MATTOON		CALCAREOUS SANDSTONE	6.0	40.0	
554.0	MATTOON		SANDSTONE	5.0	46.0	
549.0	MATTOON		SANDY SHALE	21.0	51.0	
528.0	MATTOON		SANDSTONE	4.0	72.0	
524.0	MATTOON		SANDY SHALE	39.0	76.0	
485.0	MATTOON		DARK SHALE	15.0	115.0	
470.0	MATTOON		LIMESTONE	1.0	130.0	
469.0	MATTOON		DARK GRAY SHALE	7.5	131.0	
461.5	MATTOON		SANDY SHALE	2.5	138.5	
459.0	MATTOON		SANDSTONE	19.0	141.0	SS W/ SH BREAKS
440.0	MATTOON		GRAY SHALE	14.0	160.0	
426.0	MATTOON		LIMESTONE	1.0	174.0	
425.0	MATTOON		SANDSTONE	2.0	175.0	
423.0	MATTOON		LIMESTONE	3.0	177.0	
420.0	MATTOON		SANDY SHALE	4.0	180.0	
416.0	MATTOON		GRAY SHALE	12.0	184.0	
404.0	MATTOON		BLACK SHALE	4.0	196.0	
400.0	MATTOON		DARK GRAY SHALE	6.0	200.0	
394.0	MATTOON		SANDY SHALE	24.0	206.0	
370.0	MATTOON		DARK GRAY SHALE	15.0	230.0	
355.0	MATTOON		COAL	2.0	245.0	
353.0	MATTOON		LIMESTONE	2.0	247.0	
351.0	MATTOON		GRAY SHALE	5.0	249.0	
346.0	MATTOON		CALCAREOUS SHALE	14.0	254.0	
332.0	MATTOON		SANDSTONE	22.0	268.0	
310.0	MATTOON		GRAY SHALE	10.0	290.0	GY SH & SS
300.0	MATTOON		SANDSTONE	14.0	300.0	
286.0	MATTOON		GRAY SHALE	35.5	314.0	
250.5	MATTOON		LIMESTONE	2.0	349.5	
248.5	MATTOON		SANDY SHALE	13.5	351.5	
235.0	MATTOON		SANDSTONE	21.0	365.0	SS & SH
214.0	MATTOON		DARK GRAY SHALE	26.0	386.0	
188.0	MATTOON		CALCAREOUS SHALE	4.0	412.0	
184.0	MATTOON		SANDY SHALE	20.0	416.0	

164.0	MATTOON		COAL	1.0	436.0	
163.0	MATTOON		GRAY SHALE	5.0	437.0	
158.0	MATTOON		SANDY SHALE	38.0	442.0	
120.0	MATTOON		GRAY SHALE	20.0	480.0	
100.0	MATTOON		CALCAREOUS SHALE	1.5	500.0	
98.5	MATTOON		SANDY SHALE	20.0	501.5	
78.5	MATTOON		LIMESTONE	1.5	521.5	
77.0	MATTOON		CALCAREOUS SHALE	7.0	523.0	
70.0	MATTOON		SANDY SHALE	11.0	530.0	
59.0	MATTOON		LIMESTONE	2.0	541.0	
57.0	MATTOON		CALCAREOUS SHALE	7.0	543.0	
50.0	MATTOON		SANDY SHALE	12.0	550.0	
38.0	MATTOON		GRAY SHALE	18.0	562.0	
20.0	MATTOON		CALCAREOUS SHALE	4.0	580.0	
16.0	MATTOON		COAL	2.0	584.0	
14.0	MATTOON		GRAY SHALE	4.0	586.0	GY SH W/ COAL PARTINGS
10.0	MATTOON		GRAY SHALE	13.0	590.0	
-3.0	MATTOON		CALCAREOUS SHALE	2.0	603.0	
-5.0	MATTOON		GRAY SHALE	8.0	605.0	
-13.0	BOND	MILLERSVILLE	LIMESTONE	2.0	613.0	
-15.0	BOND	MILLERSVILLE	GRAY SHALE	3.0	615.0	
-18.0	BOND	MILLERSVILLE	LIMESTONE	4.0	618.0	
-22.0	BOND		GRAY SHALE	20.5	622.0	
-42.5	BOND		LIMESTONE	1.0	642.5	
-43.5	BOND		SANDY SHALE	16.5	643.5	
-60.0	BOND		GRAY SHALE	41.0	660.0	
-101.0	BOND		COAL	2.0	701.0	
-103.0	BOND		GRAY SHALE	43.0	703.0	
-146.0	BOND		CALCAREOUS SHALE	2.0	746.0	
-148.0	BOND		CALCAREOUS SANDSTONE	3.0	748.0	
-151.0	BOND		SANDSTONE	4.0	751.0	
-155.0	BOND		SANDY SHALE	25.0	755.0	
-180.0	BOND	CARTHAGE	LIMESTONE	6.5	780.0	
-186.5	MODESTO		DARK GRAY SHALE	3.0	786.5	
-189.5	MODESTO		BLACK SHALE	0.5	789.5	
-190.0	MODESTO		GRAY SHALE	10.0	790.0	
-200.0	MODESTO		CALCAREOUS SHALE	5.0	800.0	
-205.0	MODESTO		SANDY SHALE	25.0	805.0	
-230.0	MODESTO		GRAY SHALE	19.0	830.0	
-249.0	MODESTO		COAL	3.0	849.0	
-252.0	MODESTO		GRAY SHALE	14.0	852.0	
-266.0	MODESTO		SANDY SHALE	8.0	866.0	
-274.0	MODESTO		GRAY SHALE	6.0	874.0	
-280.0	MODESTO		SANDY SHALE	45.0	880.0	
-325.0	MODESTO		SANDSTONE	13.0	925.0	SS & SH
-338.0	MODESTO		GRAY SHALE	3.0	938.0	GY SH W/ DK SH STREAKS
-341.0	MODESTO		SANDY SHALE	43.0	941.0	

-384.0	MODESTO		GRAY SHALE	12.0	984.0	GY SH & SS
-396.0	MODESTO		SANDY SHALE	4.0	996.0	
-400.0	MODESTO		SANDSTONE	12.0	1000.0	
-412.0	MODESTO	WEST FRANKLIN	LIMESTONE	2.0	1012.0	
-414.0	MODESTO	WEST FRANKLIN	SANDSTONE	1.0	1014.0	
-415.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	1015.0	
-418.0	MODESTO		GRAY SHALE	4.0	1018.0	
-422.0	MODESTO		BROWN SHALE	2.0	1022.0	
-424.0	MODESTO		GRAY SHALE	7.0	1024.0	
-431.0	MODESTO		SANDY SHALE	19.0	1031.0	
-450.0	MODESTO		GRAY SHALE	82.0	1050.0	
-532.0	CARBONDALE	DANVILLE	COAL	3.8	1132.0	
-535.8	CARBONDALE		GRAY SHALE	2.2	1135.8	
-538.0	CARBONDALE		CALCAREOUS SHALE	7.5	1138.0	
-545.5	CARBONDALE		LIMESTONE	1.5	1145.5	
-547.0	CARBONDALE		GRAY SHALE	1.0	1147.0	
-548.0	CARBONDALE		BLACK SHALE	2.0	1148.0	
-550.0	CARBONDALE	JAMESTOWN	COAL	1.3	1150.0	
-551.3	CARBONDALE	BRERETON	LIMESTONE	3.7	1151.3	
-555.0	CARBONDALE		DARK SHALE	2.5	1155.0	
-557.5	CARBONDALE		SHALE	3.0	1157.5	
-560.5	CARBONDALE	HERRIN	COAL	7.5	1160.5	
-568.0	CARBONDALE		DARK GRAY SHALE	10.0	1168.0	
-578.0	CARBONDALE		LIMESTONE	9.0	1178.0	
-587.0	CARBONDALE	SPRINGFIELD	COAL	6.0	1187.0	
-593.0	CARBONDALE		GRAY SHALE	4.0	1193.0	
-597.0	CARBONDALE		CALCAREOUS SHALE	3.0	1197.0	
-600.0	CARBONDALE		GRAY SHALE	24.0	1200.0	
-624.0	CARBONDALE		SANDY SHALE	25.0	1224.0	
-649.0	CARBONDALE		CALCAREOUS SHALE	9.2	1249.0	
-658.2	CARBONDALE		LIMESTONE	0.5	1258.2	
-658.7	CARBONDALE	EXCELLO	BLACK SHALE	2.3	1258.7	BK SH & CO
-661.0	CARBONDALE		GRAY SHALE	7.0	1261.0	
-668.0	CARBONDALE		CALCAREOUS SHALE	2.0	1268.0	
-670.0	CARBONDALE		GRAY SHALE	20.0	1270.0	
-690.0	CARBONDALE		SANDY SHALE	5.0	1290.0	
-695.0	CARBONDALE		CALCAREOUS SHALE	3.0	1295.0	
-698.0	CARBONDALE		GRAY SHALE	19.0	1298.0	
-717.0	CARBONDALE	SURVANT	COAL	1.0	1317.0	
-718.0	CARBONDALE		CALCAREOUS SHALE	2.0	1318.0	
-720.0	CARBONDALE		GRAY SHALE	8.0	1320.0	
-728.0	CARBONDALE		CALCAREOUS SHALE	6.0	1328.0	
-734.0	CARBONDALE		GRAY SHALE	14.0	1334.0	
-748.0	CARBONDALE		BLACK SHALE	1.0	1348.0	
-749.0	CARBONDALE		GRAY SHALE	8.0	1349.0	
-757.0	CARBONDALE		BROWN SHALE	1.0	1357.0	
-758.0	CARBONDALE		GRAY SHALE	26.0	1358.0	
-784.0	CARBONDALE	MECCA QUARRY	BLACK SHALE	2.0	1384.0	

-786.0	CARBONDALE		GRAY SHALE	4.0	1386.0
-790.0	CARBONDALE		CALCAREOUS SHALE	2.5	1390.0
-792.5	CARBONDALE		SILTSTONE	1.7	1392.5
-794.2	CARBONDALE		GRAY SHALE	8.8	1394.2
-803.0	CARBONDALE		CALCAREOUS SHALE	1.0	1403.0
-804.0	CARBONDALE		GRAY SHALE	12.5	1404.0
-816.5	SPOON	SEELYVILLE	COAL	6.5	1416.5
-823.0	SPOON		GRAY SHALE	17.0	1423.0

MAPID: 07922770000C VERSION: 1

PROJECT: NCRDS92

COUNTY: JASPER TWP/RNG: 8N 8E SECTION: 35 QUARTERS/FOOTAGES: 57' S line, 69' E line

QUADRANGLE: WHEELER LONGITUDE: -88.279263 GEOLOGIST: C TREWORY

CONFIDENTIAL: N LATITUDE: 39.084756 DATE COLLECTED: 10 / 2 / 1978

SURFACE ELEVATION (FT.): 580.0 LOGGED (FT.): 1260.0 LOG TYPE: Drillers Log

SOURCE: MOBIL OIL CO. IG-78-20 WELL TYPE: Coal Test

COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
580.0			CLAY	17.0	0.0	
563.0	MATTOON		DARK GRAY SHALE	45.0	17.0	
518.0	MATTOON		GRAY SHALE	53.0	62.0	
465.0	MATTOON		SANDY SHALE	15.0	115.0	
450.0	MATTOON		GRAY SHALE	20.0	130.0	
430.0	MATTOON		LIMESTONE	1.5	150.0	
428.5	MATTOON		GRAY SHALE	8.5	151.5	
420.0	MATTOON		SANDY SHALE	15.0	160.0	
405.0	MATTOON		GRAY SHALE	10.0	175.0	
395.0	MATTOON		COAL	1.0	185.0	
394.0	MATTOON		GRAY SHALE	16.0	186.0	
378.0	MATTOON		BLACK SHALE	8.0	202.0	
370.0	MATTOON		GRAY SHALE	8.0	210.0	
362.0	MATTOON		LIMESTONE	2.0	218.0	
360.0	MATTOON		GRAY SHALE	20.0	220.0	
340.0	MATTOON		DARK GRAY SHALE	16.0	240.0	
324.0	MATTOON		GRAY SHALE	11.0	256.0	
313.0	MATTOON		LIMESTONE	2.0	267.0	
311.0	MATTOON		GRAY SHALE	15.0	269.0	
296.0	MATTOON		LIMESTONE	1.0	284.0	
295.0	MATTOON		BLACK SHALE	3.0	285.0	
292.0	MATTOON		CALCAREOUS SHALE	7.0	288.0	
285.0	MATTOON		SANDY SHALE	20.0	295.0	
265.0	MATTOON		GRAY SHALE	48.0	315.0	
217.0	MATTOON		LIMESTONE	2.3	363.0	
214.7	MATTOON		CALCAREOUS SHALE	4.7	365.3	
210.0	MATTOON		SANDY SHALE	20.0	370.0	
190.0	MATTOON		GRAY SHALE	49.0	390.0	
141.0	MATTOON		SANDSTONE	1.5	439.0	
139.5	MATTOON		GRAY SHALE	27.5	440.5	
112.0	MATTOON		COAL	1.0	468.0	
111.0	MATTOON		CALCAREOUS SHALE	11.0	469.0	
100.0	MATTOON		SANDY SHALE	20.0	480.0	
80.0	MATTOON		GRAY SHALE	78.5	500.0	
1.5	MATTOON		BLACK SHALE	1.5	578.5	
0.0	MATTOON		CALCAREOUS SHALE	30.0	580.0	
-30.0	MATTOON		SANDY SHALE	15.0	610.0	
-45.0	MATTOON		BLACK SHALE	2.0	625.0	BK SH W/ COAL SEAMS
-47.0	MATTOON		GRAY SHALE	31.5	627.0	GY SH W/ LIMEY STREAKS

-78.5	MATTOON		COAL	1.5	658.5	
-80.0	MATTOON		GRAY SHALE	2.0	660.0	
-82.0	BOND	MILLERSVILLE	LIMESTONE	5.3	662.0	
-87.3	BOND		GRAY SHALE	27.9	667.3	
-115.2	BOND		SANDSTONE	1.8	695.2	
-117.0	BOND		GRAY SHALE	1.4	697.0	
-118.4	BOND		SANDY SHALE	1.6	698.4	
-120.0	BOND		CALCAREOUS SHALE	15.0	700.0	
-135.0	BOND		GRAY SHALE	35.0	715.0	
-170.0	BOND		GRAY SHALE	47.5	750.0	GY SH W/ LIMEY STREAKS
-217.5	BOND		SANDSTONE	1.5	797.5	
-219.0	BOND		SANDY SHALE	6.0	799.0	
-225.0	BOND		GRAY SHALE	26.0	805.0	
-251.0	BOND	CARTHAGE	LIMESTONE	5.5	831.0	
-256.5	MODESTO		GRAY SHALE	2.0	836.5	
-258.5	MODESTO		BLACK SHALE	1.2	838.5	
-259.7	MODESTO		SANDY SHALE	10.3	839.7	
-270.0	MODESTO		GRAY SHALE	51.2	850.0	
-321.2	MODESTO		BLACK SHALE	4.8	901.2	BK SH W/ COAL STREAKS
-326.0	MODESTO		GRAY SHALE	41.0	906.0	GY SH W/ SDY STREAKS
-367.0	MODESTO		SANDSTONE	9.0	947.0	
-376.0	MODESTO		SANDY SHALE	18.0	956.0	
-394.0	MODESTO		GRAY SHALE	5.0	974.0	
-399.0	MODESTO		COAL	1.0	979.0	
-400.0	MODESTO		SANDY SHALE	16.0	980.0	
-416.0	MODESTO		GRAY SHALE	11.6	996.0	
-427.6	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	1007.6	
-431.6	MODESTO	WEST FRANKLIN	GRAY SHALE	3.8	1011.6	
-435.4	MODESTO	WEST FRANKLIN	LIMESTONE	4.1	1015.4	
-439.5	MODESTO		GRAY SHALE	11.0	1019.5	
-450.5	MODESTO		LIMESTONE	1.5	1030.5	
-452.0	MODESTO		CALCAREOUS SHALE	5.0	1032.0	
-457.0	MODESTO		GRAY SHALE	3.0	1037.0	
-460.0	MODESTO		GRAY SHALE	4.0	1040.0	
-464.0	MODESTO		CALCAREOUS SHALE	6.0	1044.0	
-470.0	MODESTO		LIMESTONE	1.5	1050.0	
-471.5	MODESTO		GRAY SHALE	6.5	1051.5	GY SH W/ LS STREAKS
-478.0	MODESTO		SANDY SHALE	7.0	1058.0	
-485.0	MODESTO		GRAY SHALE	30.0	1065.0	
-515.0	MODESTO		CALCAREOUS SHALE	3.0	1095.0	
-518.0	MODESTO		GRAY SHALE	32.0	1098.0	
-550.0	MODESTO		GRAY SHALE	41.0	1130.0	GY SH W/ LS STREAKS
-591.0	CARBONDALE	DANVILLE	COAL	4.3	1171.0	
-595.3	CARBONDALE		GRAY SHALE	4.7	1175.3	
-600.0	CARBONDALE		CALCAREOUS SHALE	4.0	1180.0	
-604.0	CARBONDALE		LIMESTONE	2.0	1184.0	
-606.0	CARBONDALE		GRAY SHALE	4.5	1186.0	

-610.5	CARBONDALE		LIMESTONE	1.0	1190.5	
-611.5	CARBONDALE		GRAY SHALE	1.5	1191.5	
-613.0	CARBONDALE		LIMESTONE	2.2	1193.0	
-615.2	CARBONDALE	JAMESTOWN	COAL	2.8	1195.2	
-618.0	CARBONDALE	BRERETON	LIMESTONE	5.0	1198.0	
-623.0	CARBONDALE	ANNA	BLACK SHALE	3.0	1203.0	
-626.0	CARBONDALE	HERRIN	COAL	6.3	1206.0	
-632.3	CARBONDALE		GRAY SHALE	5.7	1212.3	
-638.0	CARBONDALE		CALCAREOUS SHALE	2.0	1218.0	
-640.0	CARBONDALE		LIMESTONE	1.0	1220.0	
-641.0	CARBONDALE		GRAY SHALE	10.0	1221.0	
-651.0	CARBONDALE		BLACK SHALE	3.5	1231.0	BK SH W/ COAL PARTINGS
-654.5	CARBONDALE	BRIAR HILL	COAL	2.0	1234.5	
-656.5	CARBONDALE		CALCAREOUS SHALE	2.5	1236.5	
-659.0	CARBONDALE	ST. DAVID	LIMESTONE	3.0	1239.0	
-662.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.0	1242.0	
-663.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1243.0	
-667.0	CARBONDALE		CALCAREOUS SHALE	13.0	1247.0	

MAPID: 07900872000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 8N 8E **SECTION:** 36 **QUARTERS/FOOTAGES:** NW NW NW
QUADRANGLE: WHEELER **LONGITUDE:** -88.278123 **GEOLOGIST:** C TREWORGY
CONFIDENTIAL: N **LATITUDE:** 39.098043 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 590.0 **LOGGED (FT.):** 1458.5 **LOG TYPE:** Electric Log
SOURCE: **WELL TYPE:** Oil and Gas Test
COMMENT: SPLT 3, GOOD LOG

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.) UNIT OVERBURDEN	COMMENT
-231.0	BOND	CARTHAGE	LIMESTONE	6.0	821.0
-411.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	1001.0
-570.0	CARBONDALE	DANVILLE	COAL	3.0	1160.0
-604.0	CARBONDALE	HERRIN	COAL	3.5	1194.0
-639.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1229.0
-720.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1310.0
-850.0	CARBONDALE	COLCHESTER	COAL	1.5	1440.0
-862.0	SPOON	SEELYVILLE	COAL	6.5	1452.0

MAPID: 07900950000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 8N 9E

SECTION: 1

QUARTERS/FOOTAGES: NW NE NW

QUADRANGLE: GREENUP

LONGITUDE: -88.168065

GEOLOGIST: C TREWORY

CONFIDENTIAL: N

LATITUDE: 39.170599

DATE COLLECTED:

SURFACE ELEVATION (FT.): 583.0

LOGGED (FT.): 1349.0

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
-168.0	BOND	CARTHAGE	LIMESTONE	4.0	751.0
-345.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	928.0
-491.0	CARBONDALE	DANVILLE	COAL	3.5	1074.0
-525.0	CARBONDALE	HERRIN	COAL	4.5	1108.0
-560.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1143.0
-621.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1204.0
-731.0	CARBONDALE	COLCHESTER	COAL	-	1314.0
-764.0	SPOON	SEELYVILLE	COAL	2.0	1347.0

MAPID: 07923262000C **VERSION:** 1 **PROJECT:** NCRDS88
COUNTY: JASPER **TWP/RNG:** 8N 9E **SECTION:** 1 **QUARTERS/FOOTAGES:** 57' N line, 382' W line
QUADRANGLE: GREENUP **LONGITUDE:** -88.17065 **GEOLOGIST:** R. SMITH
CONFIDENTIAL: N **LATITUDE:** 39.17141 **DATE COLLECTED:** 7 / 8 / 1980
SURFACE ELEVATION (FT.): 575.0 **LOGGED (FT.):** 1380.0 **LOG TYPE:** Multiple log types
SOURCE: MOBIL OIL CORP. **WELL TYPE:** Coal Test
COMMENT: GAMMA, DENS, RESIST, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
575.0			UNCONSOLIDATED	66.0	0.0	
509.0	MATTOON		SHALE	38.0	66.0	
471.0	MATTOON	FALMOUTH	DARK SHALE	3.0	104.0	OFF GAMMA LOG
468.0	MATTOON		GRAY SHALE	2.0	107.0	
466.0	MATTOON		LIMESTONE	1.0	109.0	
465.0	MATTOON		GRAY SHALE	18.0	110.0	
447.0	MATTOON		SANDSTONE	2.0	128.0	
445.0	MATTOON		GRAY SHALE	9.0	130.0	
436.0	MATTOON		LIMESTONE	1.0	139.0	
435.0	MATTOON		GRAY SHALE	11.0	140.0	
424.0	MATTOON	BOGOTA	LIMESTONE	1.0	151.0	OFF GAMMA LOG
423.0	MATTOON	INGRAHAM	BLACK SHALE	7.0	152.0	OFF GAMMA LOG
416.0	MATTOON		GRAY SHALE	11.0	159.0	
405.0	MATTOON		LIMESTONE	2.0	170.0	
403.0	MATTOON		GREEN SHALE	5.5	172.0	
397.5	MATTOON		LIMESTONE	1.0	177.5	
396.5	MATTOON		SANDSTONE	3.5	178.5	
393.0	MATTOON		GRAY SHALE	18.0	182.0	
375.0	MATTOON		DARK SHALE	9.0	200.0	
366.0	MATTOON		GRAY SHALE	3.0	209.0	
363.0	MATTOON		SANDSTONE	6.0	212.0	
357.0	MATTOON		GRAY SHALE	2.0	218.0	
355.0	MATTOON		DARK SHALE	2.0	220.0	
353.0	MATTOON		GRAY SHALE	9.0	222.0	
344.0	MATTOON	TEUTOPOLIS	BLACK SHALE	3.3	231.0	OFF GAMMA LOG
340.7	MATTOON		GRAY SHALE	14.2	234.3	
326.5	MATTOON		SANDSTONE	9.5	248.5	
317.0	MATTOON		SHALE	15.0	258.0	
302.0	MATTOON		LIMESTONE	3.0	273.0	
299.0	MATTOON		SANDSTONE	11.0	276.0	
288.0	MATTOON		GRAY SHALE	57.5	287.0	
230.5	MATTOON		LIMESTONE	0.5	344.5	
230.0	MATTOON		SHALE & SANDSTONE	15.0	345.0	
215.0	MATTOON		SANDSTONE	39.0	360.0	
176.0	MATTOON		LIMESTONE	1.0	399.0	
175.0	MATTOON		GRAY SHALE	18.0	400.0	
157.0	MATTOON		SANDSTONE/SHALE	4.0	418.0	
153.0	MATTOON		GRAY SHALE	18.0	422.0	
135.0	MATTOON		SANDSTONE/SHALE	5.0	440.0	

130.0	MATTOON		GRAY SHALE	53.0	445.0	
77.0	MATTOON		BLACK SHALE	2.0	498.0	
75.0	MATTOON		SANDSTONE/SHALE	13.0	500.0	
62.0	MATTOON		LIMESTONE	1.0	513.0	
61.0	MATTOON		SANDSTONE	13.0	514.0	
48.0	MATTOON		SANDSTONE/SHALE	11.0	527.0	
37.0	MATTOON		GRAY SHALE	9.0	538.0	
28.0	MATTOON		BLACK SHALE & CLAY	3.0	547.0	
25.0	MATTOON		GRAY SHALE	18.0	550.0	
7.0	BOND	MILLERSVILLE	LIMESTONE	4.0	568.0	AVE. B/LOGS
3.0	BOND	MILLERSVILLE	GRAY SHALE	6.5	572.0	AVE. B/LOGS
-3.5	BOND	MILLERSVILLE	LIMESTONE	5.5	578.5	AVE. B/LOGS
-9.0	BOND		GRAY SHALE	16.0	584.0	
-25.0	BOND		SHALE & SANDSTONE	10.0	600.0	
-35.0	BOND		GRAY SHALE	28.0	610.0	
-63.0	BOND		SANDSTONE	8.0	638.0	
-71.0	BOND		SHALE	28.0	646.0	
-99.0	BOND		BLACK SHALE	1.0	674.0	
-100.0	BOND		GRAY SHALE	29.0	675.0	
-129.0	BOND		COAL	2.0	704.0	
-131.0	BOND		GRAY SHALE	37.0	706.0	
-168.0	BOND	CARTHAGE	LIMESTONE	1.5	743.0	
-169.5	MODESTO		GRAY SHALE	1.5	744.5	
-171.0	MODESTO	NEW HAVEN	BLACK SHALE & CLAY	1.0	746.0	
-172.0	MODESTO		GRAY SHALE	8.0	747.0	
-180.0	MODESTO		SANDSTONE	5.0	755.0	
-185.0	MODESTO		GRAY SHALE	39.5	760.0	
-224.5	MODESTO		LIMESTONE	2.0	799.5	
-226.5	MODESTO		GRAY SHALE	9.5	801.5	
-236.0	MODESTO		LIMESTONE	0.5	811.0	
-236.5	MODESTO		GRAY SHALE	66.5	811.5	
-303.0	MODESTO		SHALE & SANDSTONE	2.0	878.0	
-305.0	MODESTO		GRAY SHALE	18.0	880.0	
-323.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	898.0	AVE. B/ GAMMA AND RESIST.
-327.0	MODESTO	WEST FRANKLIN	GRAY SHALE	20.0	902.0	
-347.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	922.0	
-353.0	MODESTO		DARK SHALE	10.0	928.0	
-363.0	MODESTO		CALCAREOUS SHALE	2.0	938.0	
-365.0	MODESTO		GRAY SHALE	7.5	940.0	
-372.5	MODESTO		LIMESTONE	0.9	947.5	
-373.4	MODESTO		GRAY SHALE	120.1	948.4	
-493.5	CARBONDALE	DANVILLE	COAL	3.5	1068.5	
-497.0	CARBONDALE		GRAY SHALE	7.0	1072.0	
-504.0	CARBONDALE	BANKSTON FORK	LIMESTONE	1.5	1079.0	
-505.5	CARBONDALE		GRAY SHALE	4.5	1080.5	
-510.0	CARBONDALE	CONANT	LIMESTONE	3.0	1085.0	
-513.0	CARBONDALE	JAMESTOWN	COAL	2.5	1088.0	
-515.5	CARBONDALE		GRAY SHALE	4.5	1090.5	

-520.0	CARBONDALE	BRERETON	LIMESTONE	4.0	1095.0	
-524.0	CARBONDALE	BRERETON	LIMESTONE	0.7	1099.0	CORE #1 1099-1110
-524.7	CARBONDALE	ANNA	BLACK SHALE	2.4	1099.7	
-527.1	CARBONDALE	HERRIN	COAL	5.8	1102.1	
-532.8	CARBONDALE		BLACK SHALE	2.2	1107.8	
-535.0	CARBONDALE		UNDERCLAY	1.5	1110.0	
-536.5	CARBONDALE		GRAY SHALE	21.5	1111.5	
-558.0	CARBONDALE	BRIAR HILL	COAL	1.5	1133.0	
-559.5	CARBONDALE		SHALE	2.5	1134.5	
-562.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1137.0	
-565.5	CARBONDALE		UNDERCLAY	6.5	1140.5	
-572.0	CARBONDALE		GRAY SHALE	48.4	1147.0	
-620.4	CARBONDALE	HANOVER	LIMESTONE	0.3	1195.4	
-620.7	CARBONDALE	EXCELLO	LIMESTONE W/ SHALE	2.7	1195.7	
-623.4	CARBONDALE	HOUCHIN CREEK	COAL	2.1	1198.4	
-625.5	CARBONDALE		GRAY SHALE	59.5	1200.5	
-685.0	CARBONDALE	SURVANT - UPPER	COAL WITH SHALE	1.0	1260.0	
-686.0	CARBONDALE		GRAY SHALE	22.0	1261.0	
-708.0	CARBONDALE	SURVANT - LOWER	COAL	0.5	1283.0	
-708.5	CARBONDALE		SHALE	24.5	1283.5	
-733.0	CARBONDALE	COLCHESTER	COAL WITH SHALE	2.0	1308.0	
-735.0	SPOON		GRAY SHALE	3.0	1310.0	
-738.0	SPOON		LIMESTONE	4.0	1313.0	
-742.0	SPOON		GRAY SHALE	5.0	1317.0	
-747.0	SPOON	PALZO	SANDSTONE	1.8	1322.0	CORE #2 1322-1337
-748.8	SPOON	PALZO	SHALE	0.2	1323.8	
-749.0	SPOON	PALZO	SANDSTONE	1.4	1324.0	
-750.4	SPOON	PALZO	SHALE	0.2	1325.4	
-750.6	SPOON	PALZO	SANDSTONE	1.4	1325.6	
-751.9	SPOON	PALZO	SHALE & SANDSTONE	3.0	1326.9	
-754.9	SPOON	PALZO	SANDSTONE/SHALE	2.4	1329.9	
-757.3	SPOON	PALZO	SHALE	0.3	1332.3	
-757.6	SPOON	PALZO	SANDSTONE	2.0	1332.6	
-759.6	SPOON	PALZO	SHALE & SANDSTONE	2.0	1334.6	
-761.6	SPOON	PALZO	SANDSTONE	0.4	1336.6	
-762.0	SPOON	PALZO	SANDSTONE	0.2	1337.0	CORE #3 1337-1352
-762.2	SPOON	PALZO	SHALE & SANDSTONE	1.0	1337.2	
-763.2	SPOON	PALZO	DARK SHALE	0.4	1338.2	
-763.6	SPOON	PALZO	SHALE & SANDSTONE	0.9	1338.6	
-764.5	SPOON	PALZO	SANDSTONE	0.4	1339.5	
-764.9	SPOON	PALZO	SHALE	0.9	1339.9	
-765.8	SPOON	PALZO	SANDSTONE	1.3	1340.8	
-767.1	SPOON	SEELYVILLE	COAL	4.8	1342.1	
-771.8	SPOON		SANDSTONE/CLAYSTONE	1.3	1346.8	
-773.1	SPOON		UNDERCLAY	1.3	1348.1	
-774.3	SPOON		GRAY SHALE	2.3	1349.3	
-776.6	SPOON		CORE LOSS	0.4	1351.6	
-777.0	SPOON		GRAY SHALE	8.0	1352.0	END OF CORE #3

-785.0	SPOON	DARK SHALE	3.0	1360.0
-788.0	SPOON	LIMESTONE	0.5	1363.0
-788.5	SPOON	GRAY SHALE	16.5	1363.5

MAPID: 07900014000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 8N 9E

SECTION: 5

QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: GREENUP

LONGITUDE: -88.233657

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.164798

DATE COLLECTED:

SURFACE ELEVATION (FT.): 581.0

LOGGED (FT.): 1379.0

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	BOND	CARTHAGE	LIMESTONE	6.0	763.0
-367.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	948.0
-520.0	CARBONDALE	DANVILLE	COAL	3.0	1101.0
-550.0	CARBONDALE	HERRIN	COAL	4.5	1131.0
-584.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1165.0
-654.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1235.0
-779.0	CARBONDALE	COLCHESTER	COAL	-	1360.0
-793.0	SPOON	SEELYVILLE	COAL	5.0	1374.0

MAPID: 07900014000C

VERSION: 2

PROJECT: CONTROL

COUNTY: JASPER

TWP/RNG: 8N 9E

SECTION: 5

QUARTERS/FOOTAGES: SE SW NE

QUADRANGLE: GREENUP

LONGITUDE: -88.233657

GEOLOGIST: HINES

CONFIDENTIAL: N

LATITUDE: 39.164798

DATE COLLECTED:

SURFACE ELEVATION (FT.):

LOGGED (FT.): 2852.0

LOG TYPE: Survey Sample Study

SOURCE: TIDEWATER OIL CO.

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: 07902212000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 6 QUARTERS/FOOTAGES: 330' S line, 330' E line of SW NE
QUADRANGLE: WOODBURY LONGITUDE: -88.252743 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.164647 DATE COLLECTED:
SURFACE ELEVATION (FT.): 585.0 LOGGED (FT.): 1355.0 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
-193.0	BOND	CARTHAGE	LIMESTONE	6.0	778.0
-376.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	961.0
-525.0	CARBONDALE	DANVILLE	COAL	2.0	1110.0
-552.0	CARBONDALE	HERRIN	COAL	-	1137.0
-585.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1170.0
-657.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1242.0
-770.0	CARBONDALE	COLCHESTER	COAL	-	1355.0

MAPID: 07900216000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 7 QUARTERS/FOOTAGES: 2310' N line, 330' W line
QUADRANGLE: WOODBURY LONGITUDE: -88.259951 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.149779 DATE COLLECTED:
SURFACE ELEVATION (FT.): 579.0 LOGGED (FT.): 1382.0 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	BOND	CARTHAGE	LIMESTONE	6.0	750.0
-353.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	932.0
-507.0	CARBONDALE	DANVILLE	COAL	4.0	1086.0
-537.0	CARBONDALE	HERRIN	COAL	-	1116.0
-567.0	CARBONDALE	SPRINGFIELD	COAL	5.0	1146.0
-643.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1222.0
-774.0	CARBONDALE	COLCHESTER	COAL	-	1353.0
-797.0	SPOON	SEELYVILLE	COAL	6.0	1376.0

MAPID: 07922771000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 8 QUARTERS/FOOTAGES: 75' S line, 510' E line
 QUADRANGLE: GREENUP LONGITUDE: -88.2293 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.142017 DATE COLLECTED: 9 / 22 / 1978
 SURFACE ELEVATION (FT.): 570.0 LOGGED (FT.): 1220.0 LOG TYPE: Multiple log types
 SOURCE: MOBIL OIL CORP. IG-78-14C WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS, RESIST, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.0			UNCONSOLIDATED	110.0	0.0	
460.0	MATTOON	FALMOUTH	BLACK SHALE	4.0	110.0	
456.0	MATTOON		GRAY SHALE	8.5	114.0	
447.5	MATTOON		LIMESTONE W/ SHALE	3.5	122.5	
444.0	MATTOON		CALCAREOUS SHALE	18.0	126.0	
426.0	MATTOON	WETWETHER	BLACK SHALE	2.0	144.0	
424.0	MATTOON		GRAY SHALE	18.0	146.0	
406.0	MATTOON	INGRAHAM	BLACK SHALE	6.0	164.0	
400.0	MATTOON		SHALE & SANDSTONE	8.0	170.0	
392.0	MATTOON		LIMESTONE	5.0	178.0	
387.0	MATTOON		SANDSTONE	64.0	183.0	
323.0	MATTOON	TEUTOPOLIS	BLACK SHALE	2.0	247.0	
321.0	MATTOON		SHALE & SANDSTONE	143.0	249.0	
178.0	MATTOON		SANDSTONE	32.0	392.0	
146.0	MATTOON		SHALE & SANDSTONE	52.0	424.0	
94.0	MATTOON		GRAY SHALE	40.0	476.0	
54.0	MATTOON		BLACK SHALE	2.0	516.0	OFF GAMMA LOG
52.0	MATTOON		GRAY SHALE	56.0	518.0	
-4.0	MATTOON		LIMESTONE AND SANDSTONE	2.0	574.0	SOME DOLO
-6.0	MATTOON		GRAY SHALE	17.0	576.0	
-23.0	BOND	MILLERSVILLE	LIMESTONE	5.2	593.0	
-28.2	BOND	MILLERSVILLE	GRAY SHALE	7.3	598.2	
-35.5	BOND	MILLERSVILLE	LIMESTONE	3.5	605.5	
-39.0	BOND		GRAY SHALE	21.0	609.0	
-60.0	BOND		LIMESTONE W/ SHALE	20.0	630.0	
-80.0	BOND		LIMESTONE & DOLOMITE	5.0	650.0	
-85.0	BOND		GRAY SHALE	55.0	655.0	
-140.0	BOND		BLACK SHALE	4.0	710.0	
-144.0	BOND		GRAY SHALE	37.0	714.0	
-181.0	BOND		BLACK SHALE	2.0	751.0	
-183.0	BOND		GRAY SHALE	41.2	753.0	
-224.2	BOND	CARTHAGE	LIMESTONE	4.8	794.2	
-229.0	MODESTO	NEW HAVEN	BLACK SHALE	1.0	799.0	
-230.0	MODESTO		GRAY SHALE	7.5	800.0	
-237.5	MODESTO		LIMESTONE	1.0	807.5	
-238.5	MODESTO		GRAY SHALE	43.5	808.5	
-282.0	MODESTO		BLACK SHALE	4.0	852.0	
-286.0	MODESTO		GRAY SHALE	58.0	856.0	

-344.0	MODESTO		SHALE & SANDSTONE	8.0	914.0	
-352.0	MODESTO		GRAY SHALE	42.0	922.0	
-394.0	MODESTO		CALCAREOUS SHALE	6.8	964.0	
-400.8	MODESTO		LIMESTONE	1.6	970.8	
-402.4	MODESTO		GRAY SHALE	4.6	972.4	
-407.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	977.0	THICKNESS OF GAMMA LOG
-415.0	MODESTO		SHALE	130.0	985.0	
-545.0	MODESTO		GRAY SHALE	9.8	1115.0	CORE #1 1115-1125'
-554.8	MODESTO		CORE LOSS	0.2	1124.8	
-555.0	MODESTO		GRAY SHALE	0.7	1125.0	CORE #2 1125-1135
-555.7	MODESTO		BLACK SHALE	0.2	1125.7	
-555.8	CARBONDALE	DANVILLE	COAL	2.2	1125.8	
-558.0	CARBONDALE	DANVILLE	CLAYSTONE	0.1	1128.0	
-558.1	CARBONDALE	DANVILLE	COAL	1.6	1128.1	
-559.7	CARBONDALE		UNDERCLAY	5.3	1129.7	
-565.0	CARBONDALE		LIMESTONE	2.0	1135.0	CORE #3 1135-1145'
-567.0	CARBONDALE		GRAY SHALE	0.9	1137.0	
-567.9	CARBONDALE		LIMESTONE	0.8	1137.9	
-568.7	CARBONDALE		LIMESTONE W/ SHALE	3.5	1138.7	
-572.2	CARBONDALE	CONANT	LIMESTONE	2.5	1142.2	
-574.6	CARBONDALE	JAMESTOWN	COAL	0.4	1144.6	
-575.0	CARBONDALE	JAMESTOWN	COAL	2.2	1145.0	CORE #4 1145-1155
-577.2	CARBONDALE		UNDERCLAY	0.8	1147.2	
-578.0	CARBONDALE		GRAY SHALE	4.0	1148.0	
-582.0	CARBONDALE	BRERETON	LIMESTONE	3.0	1152.0	
-585.0	CARBONDALE	BRERETON	LIMESTONE	1.6	1155.0	CORE #5 1155-1165
-586.6	CARBONDALE	ANNA	BLACK SHALE	0.3	1156.6	
-586.9	CARBONDALE	HERRIN	COAL	3.7	1156.9	
-590.6	CARBONDALE	HERRIN	CLAYSTONE	0.1	1160.6	
-590.7	CARBONDALE	HERRIN	COAL	1.7	1160.7	
-592.4	CARBONDALE		UNDERCLAY	2.5	1162.4	
-594.9	CARBONDALE		CORE LOSS	0.2	1164.9	
-595.0	CARBONDALE		UNDERCLAY	1.8	1165.0	CORE #6 1165-1175
-596.8	CARBONDALE		LIMESTONE	4.0	1166.8	
-600.8	CARBONDALE		SANDSTONE	1.0	1170.8	
-601.8	CARBONDALE		SHALE	3.2	1171.8	
-605.0	CARBONDALE		GRAY SHALE	10.0	1175.0	CORE #7 1175-1185
-615.0	CARBONDALE		GRAY SHALE	3.2	1185.0	CORE #8 1185-1195
-618.2	CARBONDALE	BRIAR HILL	COAL	1.0	1188.2	
-619.2	CARBONDALE		BLACK SHALE	2.5	1189.2	
-621.7	CARBONDALE	ST. DAVID	LIMESTONE	1.6	1191.7	
-623.3	CARBONDALE	TURNER MINE	BLACK SHALE	1.2	1193.3	
-624.5	CARBONDALE	SPRINGFIELD	COAL	0.5	1194.5	
-625.0	CARBONDALE	SPRINGFIELD	COAL	2.2	1195.0	CORE #9 1195-1205
-627.2	CARBONDALE	SPRINGFIELD	CLAYSTONE	0.1	1197.2	
-627.3	CARBONDALE	SPRINGFIELD	COAL	1.5	1197.3	
-628.7	CARBONDALE		UNDERCLAY	3.9	1198.7	
-632.6	CARBONDALE		LIMESTONE/UNDERCLAY	0.7	1202.6	

-633.3	CARBONDALE	UNDERCLAY	1.7	1203.3
-635.0	CARBONDALE	SHALE/UNDERCLAY	15.0	1205.0

MAPID: 07901924000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 10 QUARTERS/FOOTAGES: NE NE NE

QUADRANGLE: GREENUP LONGITUDE: -88.191915 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.155036 DATE COLLECTED:

SURFACE ELEVATION (FT.): 555.0 LOGGED (FT.): 1355.0 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
-182.0	BOND	CARTHAGE	LIMESTONE	5.0	737.0
-373.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	928.0
-507.0	CARBONDALE	DANVILLE	COAL	-	1062.0
-534.0	CARBONDALE	HERRIN	COAL	-	1089.0
-578.0	CARBONDALE	SPRINGFIELD	COAL	-	1133.0
-644.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1199.0
-760.0	CARBONDALE	COLCHESTER	COAL	-	1315.0
-800.0	SPOON	SEELYVILLE	COAL	-	1355.0

MAPID: 07900980000C VERSION: 1 PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 11 QUARTERS/FOOTAGES: 1317' S line, 332' W line

QUADRANGLE: GREENUP LONGITUDE: -88.189366 GEOLOGIST: C TREWORYG

CONFIDENTIAL: N LATITUDE: 39.145018 DATE COLLECTED:

SURFACE ELEVATION (FT.): 573.0 LOGGED (FT.): 1364.5 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	BOND	CARTHAGE	LIMESTONE	6.0	761.0
-383.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	956.0
-514.0	CARBONDALE	DANVILLE	COAL	3.0	1087.0
-539.0	CARBONDALE	HERRIN	COAL	5.0	1112.0
-583.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1156.0
-644.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1217.0
-764.0	CARBONDALE	COLCHESTER	COAL	-	1337.0
-786.0	SPOON	SEELYVILLE	COAL	5.5	1359.0

MAPID: 07922772000C VERSION: 1

PROJECT: NCRDS92

COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 14 QUARTERS/FOOTAGES: 1325' S line, 20' E line
 QUADRANGLE: GREENUP LONGITUDE: -88.171774 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.130457 DATE COLLECTED: 9 / 14 / 1978
 SURFACE ELEVATION (FT.): 565.0 LOGGED (FT.): 1155.0 LOG TYPE: Drillers Log
 SOURCE: MOBIL OIL CORP. IG-78-5 WELL TYPE: Coal Test
 COMMENT: E-LOG AVAILABLE TO DEPTH

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
565.0			CLAY	75.0	0.0	CLY & SDY CLY
490.0	MATTOON		GRAY SHALE	25.0	75.0	
465.0	MATTOON		SANDY SHALE	20.0	100.0	
445.0	MATTOON		DARK GRAY SHALE	40.0	120.0	
405.0	MATTOON		GRAY SHALE	40.0	160.0	
365.0	MATTOON		DARK GRAY SHALE	30.0	200.0	
335.0	MATTOON		GRAY SHALE	50.0	230.0	GY SH W/ DGY SH STREAKS
285.0	MATTOON		SANDY SHALE	290.0	280.0	
-5.0			LIMESTONE	5.0	570.0	
-172.0	BOND	CARTHAGE	LIMESTONE	4.0	737.0	
-346.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	911.0	
-498.5	CARBONDALE	DANVILLE	COAL	4.0	1063.5	
-526.0	CARBONDALE	BRERETON	LIMESTONE	5.6	1091.0	
-531.6	CARBONDALE		BLACK SHALE	0.6	1096.6	
-532.2	CARBONDALE	HERRIN	COAL	5.3	1097.2	
-560.5	CARBONDALE	BRIAR HILL	COAL	1.5	1125.5	
-564.5	CARBONDALE	ST. DAVID	LIMESTONE	1.5	1129.5	
-567.0	CARBONDALE	SPRINGFIELD	COAL	2.5	1132.0	

MAPID: 07900898000C VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 16 QUARTERS/FOOTAGES: SE SW SE
 QUADRANGLE: GREENUP LONGITUDE: -88.214682 GEOLOGIST: C TREWORGY
 CONFIDENTIAL: N LATITUDE: 39.127989 DATE COLLECTED:
 SURFACE ELEVATION (FT.): 506.0 LOGGED (FT.): 1355.0 LOG TYPE: Electric Log
 SOURCE:
 COMMENT: FAIR LOG WELL TYPE: Oil and Gas Test

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
-402.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	908.0	
-556.0	CARBONDALE	DANVILLE	COAL	3.0	1062.0	
-589.0	CARBONDALE	HERRIN	COAL	-	1095.0	
-625.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1131.0	
-696.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1202.0	
-821.0	CARBONDALE	COLCHESTER	COAL	-	1327.0	
-845.0	SPOON	SEELYVILLE	COAL	4.0	1351.0	

MAPID: 07901121000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 17 QUARTERS/FOOTAGES: 330' S line, 385' E line of NE
QUADRANGLE: GREENUP LONGITUDE: -88.228842 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.135522 DATE COLLECTED:
SURFACE ELEVATION (FT.): 526.0 LOGGED (FT.): 1373.0 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	
-218.0	BOND	CARTHAGE	LIMESTONE	6.0	744.0	
-401.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	927.0	
-554.0	CARBONDALE	DANVILLE	COAL	3.5	1080.0	
-585.0	CARBONDALE	HERRIN	COAL	4.0	1111.0	
-626.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1152.0	
-704.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1230.0	
-826.0	CARBONDALE	COLCHESTER	COAL	-	1352.0	
-842.0	SPOON	SEELYVILLE	COAL	5.0	1368.0	

MAPID: 07900919000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 18 QUARTERS/FOOTAGES: SE NE SW
QUADRANGLE: WOODBURY LONGITUDE: -88.256869 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.131509 DATE COLLECTED:
SURFACE ELEVATION (FT.): 584.0 LOGGED (FT.): 1437.0 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	
-224.0	BOND	CARTHAGE	LIMESTONE	6.0	808.0	
-389.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	973.0	
-547.0	CARBONDALE	DANVILLE	COAL	2.5	1131.0	
-580.0	CARBONDALE	HERRIN	COAL	4.5	1164.0	
-616.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1200.0	
-799.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1383.0	
-831.0	CARBONDALE	COLCHESTER	COAL	1.5	1415.0	
-848.0	SPOON	SEELYVILLE	COAL	5.0	1432.0	

MAPID: 07900906000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 23 QUARTERS/FOOTAGES: NE SE SW
QUADRANGLE: ROSE HILL LONGITUDE: -88.182145 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.114885 DATE COLLECTED:
SURFACE ELEVATION (FT.): 518.0 LOGGED (FT.): 1313.0 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	BOND	CARTHAGE	LIMESTONE	6.0	705.0
-385.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	903.0
-525.0	CARBONDALE	DANVILLE	COAL	3.0	1043.0
-557.0	CARBONDALE	HERRIN	COAL	5.0	1075.0
-595.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1113.0
-665.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1183.0
-795.0	CARBONDALE	COLCHESTER	COAL	-	1313.0

MAPID: 07922773000C VERSION: 1 PROJECT: NCRDS92
COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 25 QUARTERS/FOOTAGES: 2570' S line, 510' W line
QUADRANGLE: ROSE HILL LONGITUDE: -88.169824 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.104621 DATE COLLECTED: 9 / 2 / 1978
SURFACE ELEVATION (FT.): 560.0 LOGGED (FT.): 1094.0 LOG TYPE: Drillers Log
SOURCE: MOBIL OIL CO. IG-78-13 WELL TYPE: Coal Test
COMMENT: E-LOG AVAILABLE TO 1135'

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)	
				UNIT	OVERBURDEN COMMENT
-100.0			COAL	2.0	660.0
-463.5	CARBONDALE	DANVILLE	COAL	3.5	1023.5
-496.5	CARBONDALE	HERRIN	COAL	5.5	1056.5
-530.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1090.0

MAPID: 07900184000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 27 QUARTERS/FOOTAGES: 662' N line, 330' E line of SE
QUADRANGLE: ROSE HILL LONGITUDE: -88.191437 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.102999 DATE COLLECTED:
SURFACE ELEVATION (FT.): 530.0 LOGGED (FT.): 1370.0 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	
-202.0	BOND	CARTHAGE	LIMESTONE	7.0	732.0	
-406.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	936.0	
-534.0	CARBONDALE	DANVILLE	COAL	3.0	1064.0	
-567.0	CARBONDALE	HERRIN	COAL	5.0	1097.0	
-603.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1133.0	
-680.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1210.0	
-812.0	CARBONDALE	COLCHESTER	COAL	-	1342.0	
-840.0	SPOON	SEELYVILLE	COAL	-	1370.0	

MAPID: 07900899000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 27 QUARTERS/FOOTAGES: SE NE SW
QUADRANGLE: ROSE HILL LONGITUDE: -88.200516 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.102223 DATE COLLECTED:
SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 1351.0 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	
-426.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	926.0	
-560.0	CARBONDALE	DANVILLE	COAL	3.5	1060.0	
-594.0	CARBONDALE	HERRIN	COAL	-	1094.0	
-631.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1131.0	
-707.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1207.0	
-829.0	CARBONDALE	COLCHESTER	COAL	-	1329.0	
-848.0	SPOON	SEELYVILLE	COAL	3.0	1348.0	

MAPID: 07923133000C VERSION: 1

PROJECT: NCRDS92

COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 27 QUARTERS/FOOTAGES: 2110' N line, 72' W line
 QUADRANGLE: ROSE HILL LONGITUDE: -88.208243 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.106513 DATE COLLECTED: 9 / 25 / 1979
 SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 1170.0 LOG TYPE: Drillers Log
 SOURCE: MOBIL OIL CO. IG7927-12C WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0	MATTOON		SANDSTONE	19.5	0.0	
480.5	MATTOON		DARK GRAY SHALE	19.5	19.5	
461.0	MATTOON		BLACK SHALE	2.0	39.0	
459.0	MATTOON		LIMESTONE	0.8	41.0	
458.2	MATTOON		GRAY SHALE	4.2	41.8	
454.0	MATTOON		LIMESTONE	3.0	46.0	
451.0	MATTOON		CALCAREOUS SHALE	4.0	49.0	
447.0	MATTOON		GRAY SHALE	2.0	53.0	
445.0	MATTOON		LIMESTONE	0.5	55.0	
444.5	MATTOON		SANDY SHALE	4.5	55.5	
440.0	MATTOON		SANDSTONE	7.0	60.0	
433.0	MATTOON		BLACK SHALE	3.0	67.0	
430.0	MATTOON		SANDY SHALE	8.0	70.0	
422.0	MATTOON		CALCAREOUS SHALE	2.0	78.0	
420.0	MATTOON		GRAY SHALE	8.0	80.0	
412.0	MATTOON		DARK GRAY SHALE	2.0	88.0	
410.0	MATTOON		BLACK SHALE	6.0	90.0	
404.0	MATTOON		DARK GRAY SHALE	8.5	96.0	
395.5	MATTOON		LIMESTONE	2.5	104.5	
393.0	MATTOON		GRAY SHALE	9.0	107.0	
384.0	MATTOON		GRAY SHALE	18.0	116.0	
366.0	MATTOON		DARK SHALE	2.0	134.0	
364.0	MATTOON		GRAY SHALE	3.0	136.0	
361.0	MATTOON		GRAY SHALE	7.0	139.0	GY SH & SS
354.0	MATTOON		DARK GRAY SHALE	10.0	146.0	
344.0	MATTOON		LIMESTONE	1.5	156.0	
342.5	MATTOON		SHALE	0.5	157.5	
342.0	MATTOON		LIMESTONE	1.6	158.0	
340.4	MATTOON		SANDSTONE	0.4	159.6	
340.0	MATTOON		DARK SHALE	3.8	160.0	
336.2	MATTOON		DARK GRAY SHALE	2.2	163.8	
334.0	MATTOON		LIMESTONE	0.5	166.0	
333.5	MATTOON		BLACK SHALE	4.5	166.5	
329.0	MATTOON		GRAY SHALE	8.0	171.0	
321.0	MATTOON		SANDY SHALE	3.0	179.0	
318.0	MATTOON		SANDSTONE	11.0	182.0	
307.0	MATTOON		GRAY SHALE	75.0	193.0	
232.0	MATTOON		GRAY SHALE	3.0	268.0	GY SH W/ LS STREAKS
229.0	MATTOON		SANDY SHALE	13.0	271.0	

216.0	MATTOON	MILLERSVILLE	SANDSTONE	4.0	284.0	
212.0	MATTOON		CALCAREOUS SANDSTONE	5.0	288.0	
207.0	MATTOON		SANDSTONE	23.0	293.0	
184.0	MATTOON		CALCAREOUS SANDSTONE	4.0	316.0	
180.0	MATTOON		SANDSTONE	20.0	320.0	
160.0	MATTOON		CALCAREOUS SANDSTONE	18.0	340.0	
142.0	MATTOON		SANDY SHALE	5.0	358.0	
137.0	MATTOON		LIMESTONE	0.7	363.0	
136.3	MATTOON		SANDY SHALE	1.3	363.7	
135.0	MATTOON		CALCAREOUS SHALE	7.0	365.0	
128.0	MATTOON		SANDY SHALE	4.0	372.0	
124.0	MATTOON		SANDSTONE	4.0	376.0	
120.0	MATTOON		SANDSTONE	10.0	380.0	SS & SH
110.0	MATTOON		SANDY SHALE	20.0	390.0	
90.0	MATTOON		DARK GRAY SHALE	42.0	410.0	
48.0	MATTOON		BLACK SHALE	1.0	452.0	
47.0	MATTOON		GRAY SHALE	13.0	453.0	
34.0	MATTOON		LIMESTONE	2.0	466.0	
32.0	MATTOON		CALCAREOUS SHALE	4.0	468.0	
28.0	MATTOON		SANDY SHALE	4.0	472.0	
24.0	MATTOON		GRAY SHALE	10.0	476.0	
14.0	MATTOON		GRAY SHALE	6.0	486.0	
8.0	MATTOON		SANDY SHALE	4.0	492.0	
4.0	MATTOON		GRAY SHALE	8.0	496.0	
-4.0	MATTOON		SANDY SHALE	9.8	504.0	
-13.8	MATTOON		LIMESTONE	0.6	513.8	
-14.4	MATTOON		GRAY SHALE	1.6	514.4	
-16.0	MATTOON		COAL	1.0	516.0	
-17.0	MATTOON		CALCAREOUS SHALE	9.0	517.0	
-26.0	MATTOON		SANDY SHALE	4.0	526.0	
-30.0	MATTOON		GRAY SHALE	12.0	530.0	
-42.0	MATTOON		SANDY SHALE	6.0	542.0	
-48.0	BOND		LIMESTONE	5.8	548.0	
-53.8	BOND		SANDY SHALE	10.2	553.8	
-64.0	BOND		GRAY SHALE	16.0	564.0	
-80.0	BOND		SANDY SHALE	14.0	580.0	
-94.0	BOND		GRAY SHALE	6.0	594.0	GY SH & SS
-100.0	BOND		SANDY SHALE	39.0	600.0	
-139.0	BOND		LIMESTONE	2.0	639.0	LS & BK SH
-141.0	BOND		GRAY SHALE	7.0	641.0	
-148.0	BOND		GRAY SHALE	10.0	648.0	GY SH W/ LS STREAKS
-158.0	BOND		CALCAREOUS SHALE	6.0	658.0	
-164.0	BOND		GRAY SHALE	18.0	664.0	
-182.0	BOND		DARK GRAY SHALE	4.0	682.0	
-186.0	BOND		SILTY SHALE	10.0	686.0	

-196.0	BOND		SANDY SHALE	14.0	696.0	
-210.0	BOND		GRAY SHALE	10.0	710.0	
-220.0	BOND		GRAY SHALE	4.0	720.0	
-224.0	BOND	CARTHAGE	LIMESTONE	6.5	724.0	
-230.5	MODESTO		DARK GRAY SHALE	1.5	730.5	
-232.0	MODESTO		BLACK SHALE	1.0	732.0	
-233.0	MODESTO		GRAY SHALE	6.0	733.0	
-239.0	MODESTO		SANDY SHALE	11.0	739.0	
-250.0	MODESTO		GRAY SHALE	33.0	750.0	
-283.0	MODESTO		BLACK SHALE	2.0	783.0	BK SH & CO
-285.0	MODESTO		GRAY SHALE	10.0	785.0	
-295.0	MODESTO		GRAY SHALE	10.0	795.0	
-305.0	MODESTO		GRAY SHALE	54.0	805.0	
-359.0	MODESTO		LIMESTONE	1.0	859.0	
-360.0	MODESTO		GRAY SHALE	18.0	860.0	
-378.0	MODESTO		SANDY SHALE	20.0	878.0	
-398.0	MODESTO		SANDSTONE	17.0	898.0	SS W/ ST
-415.0	MODESTO		SANDSTONE	5.0	915.0	
-420.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.5	920.0	
-426.5	MODESTO		GRAY SHALE	14.5	926.5	
-441.0	MODESTO		BROWN SHALE	3.0	941.0	
-444.0	MODESTO		GRAY SHALE	30.0	944.0	
-474.0	MODESTO		CALCAREOUS SHALE	6.0	974.0	
-480.0	MODESTO		GRAY SHALE	15.0	980.0	
-495.0	MODESTO		SANDY SHALE	5.0	995.0	
-500.0	MODESTO		SANDY SHALE	20.0	1000.0	
-520.0	MODESTO		GRAY SHALE	54.5	1020.0	
-574.5	CARBONDALE	DANVILLE	COAL	3.5	1074.5	
-578.0	CARBONDALE		GRAY SHALE	9.5	1078.0	
-587.5	CARBONDALE		LIMESTONE	1.5	1087.5	LS & SH
-589.0	CARBONDALE		SANDY SHALE	6.6	1089.0	
-595.6	CARBONDALE		LIMESTONE	2.4	1095.6	
-598.0	CARBONDALE	JAMESTOWN	COAL	2.5	1098.0	CO W/ BK SH
-600.5	CARBONDALE		CALCAREOUS SHALE	5.2	1100.5	
-605.7	CARBONDALE	BRERETON	LIMESTONE	3.3	1105.7	
-609.0	CARBONDALE	ANNA	BLACK SHALE	1.0	1109.0	
-610.0	CARBONDALE	HERRIN	COAL	6.5	1110.0	
-616.5	CARBONDALE		GRAY SHALE	21.1	1116.5	
-637.6	CARBONDALE		BLACK SHALE	1.4	1137.6	
-639.0	CARBONDALE	BRIAR HILL	COAL	1.0	1139.0	
-640.0	CARBONDALE		UNDERCLAY	3.0	1140.0	
-643.0	CARBONDALE	ST. DAVID	LIMESTONE	3.5	1143.0	
-646.5	CARBONDALE		SHALE	4.5	1146.5	
-651.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1151.0	
-655.5	CARBONDALE		CALCAREOUS SHALE	2.5	1155.5	
-658.0	CARBONDALE		GRAY SHALE	12.0	1158.0	

MAPID: 07900915000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 28 QUARTERS/FOOTAGES: SE NE NW
QUADRANGLE: ROSE HILL LONGITUDE: -88.219052 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.109791 DATE COLLECTED:
SURFACE ELEVATION (FT.): 571.0 LOGGED (FT.): 1437.5 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
-222.0	BOND	CARTHAGE	LIMESTONE	6.0	793.0
-573.0	CARBONDALE	DANVILLE	COAL	3.0	1144.0
-609.0	CARBONDALE	HERRIN	COAL	-	1180.0
-646.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1217.0
-717.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1288.0
-842.0	CARBONDALE	COLCHESTER	COAL	-	1413.0
-863.0	SPOON	SEELYVILLE	COAL	3.5	1434.0

MAPID: 07901909000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 28 QUARTERS/FOOTAGES: 110' N line, 330' E line of SW NW
QUADRANGLE: ROSE HILL LONGITUDE: -88.223736 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.108661 DATE COLLECTED:
SURFACE ELEVATION (FT.): 565.0 LOGGED (FT.): 1453.0 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	BOND	CARTHAGE	LIMESTONE	6.0	804.0
-422.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	987.0
-586.0	CARBONDALE	DANVILLE	COAL	3.0	1151.0
-622.0	CARBONDALE	HERRIN	COAL	5.0	1187.0
-659.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1224.0
-733.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1298.0
-863.0	CARBONDALE	COLCHESTER	COAL	-	1428.0
-882.0	SPOON	SEELYVILLE	COAL	6.0	1447.0

MAPID: 07900914000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 29 QUARTERS/FOOTAGES: SE SE NW
QUADRANGLE: ROSE HILL LONGITUDE: -88.237925 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.106093 DATE COLLECTED:
SURFACE ELEVATION (FT.): 580.0 LOGGED (FT.): 1446.0 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
-423.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	1003.0
-569.0	CARBONDALE	DANVILLE	COAL	3.5	1149.0
-606.0	CARBONDALE	HERRIN	COAL	5.0	1186.0
-637.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1217.0
-710.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1290.0
-838.0	CARBONDALE	COLCHESTER	COAL	-	1418.0
-861.0	SPOON	SEELYVILLE	COAL	5.0	1441.0

MAPID: 07901071000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 29 QUARTERS/FOOTAGES: 530' S line, 330' E line of NE SE
QUADRANGLE: ROSE HILL LONGITUDE: -88.228412 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.103221 DATE COLLECTED:
SURFACE ELEVATION (FT.): 532.0 LOGGED (FT.): 1418.0 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
-586.0	CARBONDALE	DANVILLE	COAL	2.0	1118.0
-621.0	CARBONDALE	HERRIN	COAL	3.0	1153.0
-660.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1192.0
-733.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1265.0
-861.0	CARBONDALE	COLCHESTER	COAL	1.5	1393.0
-882.0	SPOON	SEELYVILLE	COAL	4.0	1414.0

MAPID: 07923161000C VERSION: 1

PROJECT: NCRDS92

COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 30 QUARTERS/FOOTAGES: 2616' S line, 54' E line
 QUADRANGLE: ROSE HILL LONGITUDE: -88.246405 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.104832 DATE COLLECTED: 10 / 8 / 1979
 SURFACE ELEVATION (FT.): 570.0 LOGGED (FT.): 1220.0 LOG TYPE: Drillers Log
 SOURCE: MOBIL OIL CO. IG79-30-11 WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
570.0			CLAY	10.0	0.0	
560.0			SANDY CLAY	3.0	10.0	
557.0	MATTOON		DARK SHALE	2.0	13.0	
555.0	MATTOON		BROWN SHALE	1.0	15.0	BN SH W/ COAL
554.0	MATTOON		GRAY SHALE	3.0	16.0	
551.0	MATTOON		LIMESTONE	0.5	19.0	
550.5	MATTOON		SANDSTONE	2.5	19.5	
548.0	MATTOON		GRAY SHALE	4.0	22.0	
544.0	MATTOON		SANDY SHALE	36.0	26.0	
508.0	MATTOON		DARK GRAY SHALE	12.0	62.0	
496.0	MATTOON		SANDY SHALE	10.0	74.0	
486.0	MATTOON		GRAY SHALE	32.0	84.0	
454.0	MATTOON		BLACK SHALE	2.0	116.0	
452.0	MATTOON		GRAY SHALE	12.0	118.0	
440.0	MATTOON		SANDSTONE	11.0	130.0	SS & SH
429.0	MATTOON		LIMESTONE	0.5	141.0	
428.5	MATTOON		SANDSTONE	10.5	141.5	SS & SH
418.0	MATTOON		DARK SHALE	2.0	152.0	
416.0	MATTOON		BLACK SHALE	2.0	154.0	
414.0	MATTOON		GRAY SHALE	6.0	156.0	
408.0	MATTOON		CALCAREOUS SHALE	12.0	162.0	
396.0	MATTOON		BLACK SHALE	1.7	174.0	
394.3	MATTOON		LIMESTONE	0.5	175.7	
393.8	MATTOON		BLACK SHALE	3.8	176.2	
390.0	MATTOON		DARK SHALE	4.0	180.0	
386.0	MATTOON		CALCAREOUS SHALE	4.0	184.0	
382.0	MATTOON		SANDY SHALE	4.0	188.0	
378.0	MATTOON		GRAY SHALE	13.0	192.0	
365.0	MATTOON		DARK GRAY SHALE	15.0	205.0	
350.0	MATTOON		GRAY SHALE	18.0	220.0	
332.0	MATTOON		GRAY SHALE	4.0	238.0	
328.0	MATTOON		DARK GRAY SHALE	12.0	242.0	
316.0	MATTOON		BLACK SHALE	3.0	254.0	
313.0	MATTOON		SANDY SHALE	3.0	257.0	
310.0	MATTOON		SANDSTONE	17.0	260.0	
293.0	MATTOON		SHALE	2.0	277.0	
291.0	MATTOON		SANDSTONE	2.0	279.0	
289.0	MATTOON		SANDY SHALE	5.0	281.0	
284.0	MATTOON		SANDY SHALE	14.0	286.0	

270.0	MATTOON		DARK SHALE	9.5	300.0	
260.5	MATTOON		LIMESTONE	2.0	309.5	
258.5	MATTOON		SANDSTONE	6.5	311.5	
252.0	MATTOON		SANDY SHALE	27.0	318.0	
225.0	MATTOON		SANDY SHALE	5.0	345.0	
220.0	MATTOON		SANDSTONE	22.0	350.0	SS & SH
198.0	MATTOON		SANDY SHALE	18.0	372.0	
180.0	MATTOON		GRAY SHALE	25.0	390.0	
155.0	MATTOON		SANDY SHALE	8.0	415.0	
147.0	MATTOON		GRAY SHALE	7.0	423.0	
140.0	MATTOON		GRAY SHALE	16.0	430.0	
124.0	MATTOON		LIMESTONE	2.0	446.0	
122.0	MATTOON		GRAY SHALE	8.0	448.0	
114.0	MATTOON		SANDY SHALE	14.0	456.0	
100.0	MATTOON		GRAY SHALE	46.0	470.0	
54.0	MATTOON		CALCAREOUS SHALE	3.0	516.0	
51.0	MATTOON		LIMESTONE	1.0	519.0	
50.0	MATTOON		SANDY SHALE	19.0	520.0	
31.0	MATTOON		BLACK SHALE	22.0	539.0	BK SH & CO
9.0	MATTOON		GRAY SHALE	4.0	561.0	
5.0	MATTOON		CALCAREOUS SHALE	16.0	565.0	
-11.0	MATTOON		COAL	1.0	581.0	
-12.0	MATTOON		GRAY SHALE	29.0	582.0	
-41.0	BOND	MILLERSVILLE	LIMESTONE	3.0	611.0	
-44.0	BOND	MILLERSVILLE	GRAY SHALE	1.0	614.0	
-45.0	BOND	MILLERSVILLE	LIMESTONE	5.5	615.0	
-50.5	BOND		CALCAREOUS SHALE	2.5	620.5	
-53.0	BOND		SANDY SHALE	18.5	623.0	
-71.5	BOND		COAL	1.5	641.5	
-73.0	BOND		GRAY SHALE	2.0	643.0	
-75.0	BOND		LIMESTONE	2.5	645.0	
-77.5	BOND		GRAY SHALE	10.5	647.5	
-88.0	BOND		SANDY SHALE	40.0	658.0	
-128.0	BOND		CALCAREOUS SHALE	1.5	698.0	
-129.5	BOND		GRAY SHALE	4.5	699.5	
-134.0	BOND		BLACK SHALE	1.0	704.0	BK SH W/ CO
-135.0	BOND		GRAY SHALE	17.0	705.0	
-152.0	BOND		SANDY SHALE	20.0	722.0	
-172.0	BOND		COAL	2.0	742.0	
-174.0	BOND		GRAY SHALE	7.0	744.0	
-181.0	BOND		SANDSTONE	9.0	751.0	CALC SS
-190.0	BOND		SANDSTONE	7.0	760.0	
-197.0	BOND		LIMESTONE	2.0	767.0	
-199.0	BOND		SANDSTONE	13.0	769.0	
-212.0	BOND		SANDY SHALE	6.5	782.0	
-218.5	BOND	CARTHAGE	LIMESTONE	6.0	788.5	
-224.5	BOND		DARK GRAY SHALE	2.5	794.5	
-227.0	MODESTO		BLACK SHALE	2.0	797.0	

-229.0	MODESTO		GRAY SHALE	37.0	799.0
-266.0	MODESTO		CALCAREOUS SHALE	3.0	836.0
-269.0	MODESTO		DARK GRAY SHALE	14.0	839.0
-283.0	MODESTO		COAL	1.5	853.0
-284.5	MODESTO		GRAY SHALE	2.5	854.5
-287.0	MODESTO		LIMESTONE	1.5	857.0
-288.5	MODESTO		SANDY SHALE	5.5	858.5
-294.0	MODESTO		GRAY SHALE	32.0	864.0
-326.0	MODESTO		SANDSTONE	41.0	896.0
-367.0	MODESTO		LIMESTONE	2.5	937.0
-369.5	MODESTO		GRAY SHALE	0.5	939.5
-370.0	MODESTO		GRAY SHALE	31.0	940.0
-401.0	MODESTO		CALCAREOUS SHALE	6.0	971.0
-407.0	MODESTO	WEST FRANKLIN	LIMESTONE	1.0	977.0
-408.0	MODESTO	WEST FRANKLIN	GRAY SHALE	6.0	978.0
-414.0	MODESTO	WEST FRANKLIN	LIMESTONE	15.5	984.0
-429.5	MODESTO		GRAY SHALE	16.5	999.5
-446.0	MODESTO		SANDY SHALE	4.0	1016.0
-450.0	MODESTO		GRAY SHALE	60.0	1020.0
-510.0	MODESTO		GRAY SHALE	46.2	1080.0
-556.2	CARBONDALE	DANVILLE	COAL	3.5	1126.2
-559.7	CARBONDALE		GRAY SHALE	6.3	1129.7
-566.0	CARBONDALE	BANKSTON FORK	LIMESTONE	3.0	1136.0
-569.0	CARBONDALE		GRAY SHALE	7.0	1139.0
-576.0	CARBONDALE	CONANT	LIMESTONE	2.5	1146.0
-578.5	CARBONDALE	JAMESTOWN	COAL	1.5	1148.5
-580.0	CARBONDALE		DARK GRAY SHALE	3.5	1150.0
-583.5	CARBONDALE	BRERETON	LIMESTONE	5.0	1153.5
-588.5	CARBONDALE	ANNA	BLACK SHALE	0.5	1158.5
-589.0	CARBONDALE	HERRIN	COAL	5.7	1159.0
-594.7	CARBONDALE		GRAY SHALE	2.3	1164.7
-597.0	CARBONDALE		LIMESTONE	3.0	1167.0
-600.0	CARBONDALE		GRAY SHALE	20.5	1170.0
-620.5	CARBONDALE	BRIAR HILL	COAL	1.5	1190.5
-622.0	CARBONDALE		GRAY SHALE	2.5	1192.0
-624.5	CARBONDALE	ST. DAVID	LIMESTONE	5.5	1194.5
-630.0	CARBONDALE	TURNER MINE	BLACK SHALE	1.3	1200.0
-631.3	CARBONDALE	SPRINGFIELD	COAL	4.5	1201.3
-635.8	CARBONDALE		UNDERCLAY	5.7	1205.8
-641.5	CARBONDALE		LIMESTONE	3.5	1211.5
-645.0	CARBONDALE		GRAY SHALE	5.0	1215.0

MAPID: 07900955000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 32 QUARTERS/FOOTAGES: SE NE SW
QUADRANGLE: ROSE HILL LONGITUDE: -88.237846 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.087669 DATE COLLECTED:
SURFACE ELEVATION (FT.): 574.0 LOGGED (FT.): 1427.0 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
-399.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	973.0
-552.0	CARBONDALE	DANVILLE	COAL	3.5	1126.0
-588.0	CARBONDALE	HERRIN	COAL	-	1162.0
-625.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1199.0
-832.0	CARBONDALE	COLCHESTER	COAL	-	1406.0
-846.0	SPOON	SEELYVILLE	COAL	7.0	1420.0

MAPID: 07900976000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 33 QUARTERS/FOOTAGES: NW SE NW
QUADRANGLE: ROSE HILL LONGITUDE: -88.2214 GEOLOGIST: C TREWORGY
CONFIDENTIAL: N LATITUDE: 39.093395 DATE COLLECTED:
SURFACE ELEVATION (FT.): 570.0 LOGGED (FT.): 1373.0 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
-548.0	CARBONDALE	DANVILLE	COAL	3.0	1118.0
-582.0	CARBONDALE	HERRIN	COAL	5.0	1152.0
-618.0	CARBONDALE	SPRINGFIELD	COAL	-	1188.0
-684.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1254.0
-803.0	CARBONDALE	COLCHESTER	COAL	-	1373.0

MAPID: 07923162000C VERSION: 1

PROJECT: NCRDS92

COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 33 QUARTERS/FOOTAGES: 2130' N line, 846' E line
 QUADRANGLE: ROSE HILL LONGITUDE: -88.211488 GEOLOGIST: C TREWORY
 CONFIDENTIAL: N LATITUDE: 39.091988 DATE COLLECTED: 10 / 10 / 1979
 SURFACE ELEVATION (FT.): 500.0 LOGGED (FT.): 1160.0 LOG TYPE: Drillers Log
 SOURCE: MOBIL OIL CORP. IG79-33-13 WELL TYPE: Coal Test
 COMMENT:

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
500.0			CLAY	19.5	0.0	
480.5	MATTOON		SANDSTONE	26.5	19.5	SS & GRAVEL
454.0	MATTOON		SILTSTONE	11.7	46.0	ST & SH
442.3	MATTOON		SANDSTONE	3.3	57.7	
439.0	MATTOON		SANDY SHALE	65.0	61.0	
374.0	MATTOON		LIMESTONE	3.5	126.0	
370.5	MATTOON		SANDY SHALE	44.5	129.5	
326.0	MATTOON		LIMESTONE	3.5	174.0	
322.5	MATTOON		CALCAREOUS SHALE	5.5	177.5	
317.0	MATTOON		DARK GRAY SHALE	4.0	183.0	
313.0	MATTOON		BLACK SHALE	5.0	187.0	BK SH & CO
308.0	MATTOON		GRAY SHALE	6.0	192.0	
302.0	MATTOON		CALCAREOUS SHALE	12.0	198.0	
290.0	MATTOON		DARK GRAY SHALE	18.0	210.0	
272.0	MATTOON		SANDY SHALE	63.0	228.0	
209.0	MATTOON		SANDSTONE	84.0	291.0	
125.0	MATTOON		LIMESTONE	2.0	375.0	
123.0	MATTOON		GRAY SHALE	2.0	377.0	
121.0	MATTOON		LIMESTONE	4.0	379.0	
117.0	MATTOON		GRAY SHALE	63.0	383.0	
54.0	MATTOON		BLACK SHALE	2.0	446.0	
52.0	MATTOON		GRAY SHALE	33.0	448.0	
19.0	MATTOON		LIMESTONE	7.0	481.0	
12.0	MATTOON		GRAY SHALE	6.0	488.0	GY SH W/ LS
6.0	MATTOON		SANDY SHALE	14.0	494.0	
-8.0	MATTOON		BLACK SHALE	18.0	508.0	
-26.0	MATTOON		COAL	2.0	526.0	
-28.0	MATTOON		GRAY SHALE	31.0	528.0	
-59.0	BOND	MILLERSVILLE	LIMESTONE	3.0	559.0	
-62.0	BOND	MILLERSVILLE	COAL	2.0	562.0	
-64.0	BOND	MILLERSVILLE	LIMESTONE	5.0	564.0	
-69.0	BOND		CALCAREOUS SHALE	3.5	569.0	
-72.5	BOND		SANDY SHALE	24.5	572.5	
-97.0	BOND		COAL	1.5	597.0	
-98.5	BOND		GRAY SHALE	5.5	598.5	
-104.0	BOND		LIMESTONE	2.0	604.0	
-106.0	BOND		GRAY SHALE	5.0	606.0	
-111.0	BOND		SANDY SHALE	38.5	611.0	
-149.5	BOND		COAL	1.5	649.5	

-151.0	BOND		GRAY SHALE	6.0	651.0	
-157.0	BOND		SANDY SHALE	18.0	657.0	
-175.0	BOND		SANDY SHALE	11.0	675.0	
-186.0	BOND		COAL	2.0	686.0	
-188.0	BOND		DARK GRAY SHALE	6.0	688.0	
-194.0	BOND		LIMESTONE	1.0	694.0	
-195.0	BOND		GRAY SHALE	5.0	695.0	LGY SH & SS
-200.0	BOND		SANDY SHALE	7.0	700.0	
-207.0	BOND		GRAY SHALE	1.0	707.0	
-208.0	BOND		SANDY SHALE	12.0	708.0	
-220.0	BOND		SANDY SHALE	9.6	720.0	
-229.6	BOND	CARTHAGE	LIMESTONE	6.2	729.6	
-235.8	MODESTO		DARK SHALE	2.7	735.8	
-238.5	MODESTO		GRAY SHALE	8.5	738.5	
-247.0	MODESTO		SANDY SHALE	32.0	747.0	
-279.0	MODESTO		LIMESTONE	1.0	779.0	
-280.0	MODESTO		DARK GRAY SHALE	13.0	780.0	
-293.0	MODESTO		COAL	1.0	793.0	
-294.0	MODESTO		DARK GRAY SHALE	4.0	794.0	
-298.0	MODESTO		GRAY SHALE	5.5	798.0	
-303.5	MODESTO		CALCAREOUS SHALE	6.5	803.5	
-310.0	MODESTO		GRAY SHALE	61.0	810.0	
-371.0	MODESTO		SANDY SHALE	8.0	871.0	
-379.0	MODESTO		GRAY SHALE	11.0	879.0	
-390.0	MODESTO		CALCAREOUS SHALE	10.0	890.0	
-400.0	MODESTO		GRAY SHALE	4.0	900.0	
-404.0	MODESTO		SANDSTONE	15.0	904.0	
-419.0	MODESTO		SHALE	1.0	919.0	
-420.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.5	920.0	
-427.5	MODESTO		GRAY SHALE	8.5	927.5	
-436.0	MODESTO		GRAY SHALE	133.2	936.0	
-569.2	CARBONDALE	DANVILLE	COAL	3.8	1069.2	
-573.0	CARBONDALE		GRAY SHALE	8.0	1073.0	
-581.0	CARBONDALE	BANKSTON FORK	LIMESTONE	1.0	1081.0	
-582.0	CARBONDALE	BANKSTON FORK	GRAY SHALE	1.5	1082.0	
-583.5	CARBONDALE	BANKSTON FORK	LIMESTONE	1.5	1083.5	
-585.0	CARBONDALE		SANDY SHALE	6.0	1085.0	
-591.0	CARBONDALE	CONANT	LIMESTONE	1.0	1091.0	
-592.0	CARBONDALE		GRAY SHALE	1.0	1092.0	
-593.0	CARBONDALE	JAMESTOWN	COAL	2.0	1093.0	
-595.0	CARBONDALE		GRAY SHALE	4.0	1095.0	
-599.0	CARBONDALE	BRERETON	LIMESTONE	3.5	1099.0	
-602.5	CARBONDALE	ANNA	BLACK SHALE	1.0	1102.5	
-603.5	CARBONDALE	HERRIN	COAL	6.2	1103.5	
-609.7	CARBONDALE		GRAY SHALE	18.3	1109.7	
-628.0	CARBONDALE	BRIAR HILL	COAL	1.0	1128.0	
-629.0	CARBONDALE		GRAY SHALE	5.0	1129.0	
-634.0	CARBONDALE	ST. DAVID	LIMESTONE	5.5	1134.0	

-639.5	CARBONDALE		GRAY SHALE	4.5	1139.5
-644.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1144.0
-647.0	CARBONDALE		GRAY SHALE	2.5	1147.0
-649.5	CARBONDALE		CALCAREOUS SHALE	1.0	1149.5
-650.5	CARBONDALE		SANDY SHALE	9.5	1150.5

MAPID: 07922862000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 8N 9E SECTION: 34 QUARTERS/FOOTAGES: 59' N line, 113' E line
 QUADRANGLE: ROSE HILL LONGITUDE: -88.190678 GEOLOGIST: R. SMITH
 CONFIDENTIAL: N LATITUDE: 39.097306 DATE COLLECTED: 11 / 29 / 1978
 SURFACE ELEVATION (FT.): 496.0 LOGGED (FT.): 1147.0 LOG TYPE: Multiple log types
 SOURCE: COASTAL STATES ILJC-78-7 WELL TYPE: Coal Test
 COMMENT: GAMMA, DENS, NEUTRON, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
496.0			UNCONSOLIDATED	30.0	0.0	DRILLERS LOG VERY GENERALIZED
466.0	MATTOON		GRAY SHALE	50.0	30.0	
416.0	MATTOON	INGRAHAM	DARK SHALE & BLACK SHALE	10.0	80.0	
406.0	MATTOON		LIMESTONE	12.0	90.0	
394.0	MATTOON		GRAY SHALE	46.0	102.0	
348.0	MATTOON	SHUMWAY	LIMESTONE	4.0	148.0	OFF GAMMA LOG
344.0	MATTOON		SHALE	8.0	152.0	OFF GAMMA LOG
336.0	MATTOON	TEUTOPOLIS	BLACK SHALE	4.0	160.0	OFF GAMMA LOG
332.0	MATTOON		SHALE	106.0	164.0	OFF GAMMA LOG
226.0	MATTOON		SANDSTONE	80.0	270.0	
146.0	MATTOON		SHALE	87.0	350.0	
59.0	MATTOON		BLACK SHALE	2.0	437.0	OFF GAMMA LOG
57.0	MATTOON		SHALE	21.0	439.0	
36.0	MATTOON		SANDSTONE/SILTSTONE	78.0	460.0	
-42.0	BOND	MILLERSVILLE	LIMESTONE	4.0	538.0	
-46.0	BOND		GRAY SHALE	77.0	542.0	
-123.0	BOND		BLACK SHALE	3.0	619.0	
-126.0	BOND		GRAY SHALE	28.0	622.0	
-154.0	BOND		SILTSTONE	53.0	650.0	
-207.0	BOND	CARTHAGE	LIMESTONE	5.0	703.0	
-212.0	MODESTO	NEW HAVEN	BLACK SHALE	3.8	708.0	OFF GAMMA LOG
-215.8	MODESTO		SILTSTONE	49.2	711.8	
-265.0	MODESTO	CHAPEL	BLACK SHALE & CLAY	5.0	761.0	OFF GAMMA LOG
-270.0	MODESTO		SILTSTONE	64.0	766.0	
-334.0	MODESTO	TRIVOLI	SANDSTONE	69.0	830.0	
-403.0	MODESTO	WEST FRANKLIN	LIMESTONE	12.0	899.0	
-415.0	MODESTO		SANDSTONE	59.0	911.0	
-474.0	MODESTO		SHALY SANDSTONE	55.0	970.0	
-529.0	MODESTO		SHALE	7.4	1025.0	CORE #1 1025-1042'
-536.4	CARBONDALE	DANVILLE	COAL	3.9	1032.4	
-540.2	CARBONDALE		SHALE	0.4	1036.2	
-540.6	CARBONDALE		CLAYSTONE & SILTSTONE	3.1	1036.6	
-543.7	CARBONDALE		GRAY SHALE	2.3	1039.7	
-546.0	CARBONDALE		GRAY SHALE	1.0	1042.0	CORE #2 1042-1061
-547.0	CARBONDALE		CLAYSTONE & SILTSTONE	1.4	1043.0	
-548.3	CARBONDALE	BANKSTON FORK	LIMESTONE	2.1	1044.3	
-550.4	CARBONDALE		GRAY SHALE	3.9	1046.4	
-554.3	CARBONDALE		LIMESTONE	0.4	1050.3	

-554.7	CARBONDALE		SHALE	1.2	1050.7	
-555.8	CARBONDALE	CONANT	LIMESTONE	2.5	1051.8	
-558.3	CARBONDALE	JAMESTOWN	COAL	0.7	1054.3	
-559.0	CARBONDALE		CLAYSTONE & SILTSTONE	1.3	1055.0	CB=CARBONACEOUS
-560.3	CARBONDALE		CARBONACEOUS SHALE	0.7	1056.3	CB=CARBONACEOUS
-561.0	CARBONDALE	BRERETON	LIMESTONE	4.0	1057.0	
-565.0	CARBONDALE	BRERETON	LIMESTONE	3.5	1061.0	CORE #3 1061-1080.15
-568.5	CARBONDALE	ANNA	DARK SHALE	1.7	1064.5	
-570.3	CARBONDALE	HERRIN	COAL	6.0	1066.3	
-576.3	CARBONDALE		CLAYSTONE & SILTSTONE	4.4	1072.3	
-580.6	CARBONDALE		GRAY SHALE	3.6	1076.6	
-584.2	CARBONDALE		CORE LOSS	0.4	1080.2	CORE #4 1080.15-1098.85
-584.6	CARBONDALE		GRAY SHALE	12.8	1080.6	
-597.4	CARBONDALE	BRIAR HILL	COAL	1.1	1093.4	
-598.5	CARBONDALE		DARK SHALE	2.2	1094.5	
-600.7	CARBONDALE	ST. DAVID	LIMESTONE	2.2	1096.7	
-602.9	CARBONDALE	ST. DAVID	LIMESTONE	5.1	1098.9	CORE #5 1098.85-1117.3'
-607.9	CARBONDALE	TURNER MINE	BLACK SHALE	0.6	1103.9	
-608.5	CARBONDALE	SPRINGFIELD	COAL	3.8	1104.5	
-612.3	CARBONDALE		UNDERCLAY	3.5	1108.3	
-615.8	CARBONDALE		SHALE	5.6	1111.8	
-621.4	CARBONDALE		GRAY SHALE	29.7	1117.4	

MAPID: 07902113000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 8N 10E **SECTION:** 13 **QUARTERS/FOOTAGES:** SE NE SE
QUADRANGLE: HAZEL DELL **LONGITUDE:** -88.041265 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.131281 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 541.0 **LOGGED (FT.):** 1043.0 **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
56.0	BOND	CARTHAGE	LIMESTONE	5.0	485.0
-86.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	627.0
-231.0	CARBONDALE	DANVILLE	COAL	2.0	772.0
-253.0	CARBONDALE	HERRIN	COAL	3.0	794.0
-304.0	CARBONDALE	SPRINGFIELD	COAL	3.0	845.0
-349.0	CARBONDALE	HOUCHIN CREEK	COAL	-	890.0
-469.0	CARBONDALE	COLCHESTER	COAL	-	1010.0
-498.0	SPOON	SEELYVILLE	COAL	4.0	1039.0

MAPID: 07922729000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 8N 10E **SECTION:** 15 **QUARTERS/FOOTAGES:** NE SE NW
QUADRANGLE: HAZEL DELL **LONGITUDE:** -88.087852 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.136216 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 571.0 **LOGGED (FT.):** 1156.0 **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
-22.0	BOND	CARTHAGE	LIMESTONE	5.0	593.0
-173.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	744.0
-322.0	CARBONDALE	DANVILLE	COAL	2.0	893.0
-352.0	CARBONDALE	HERRIN	COAL	-	923.0
-389.0	CARBONDALE	SPRINGFIELD	COAL	3.5	960.0
-435.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1006.0
-561.0	CARBONDALE	COLCHESTER	COAL	-	1132.0
-581.0	SPOON	SEELYVILLE	COAL	4.0	1152.0

MAPID: 07900563000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 8N 10E **SECTION:** 17 **QUARTERS/FOOTAGES:** SE NE NW
QUADRANGLE: GREENUP **LONGITUDE:** -88.125408 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.137363 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 562.0 **LOGGED (FT.):** 1286.0 **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	BOND	CARTHAGE	LIMESTONE	6.0	691.0
-343.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	905.0
-443.0	CARBONDALE	DANVILLE	COAL	3.5	1005.0
-478.0	CARBONDALE	HERRIN	COAL	4.0	1040.0
-520.0	CARBONDALE	SPRINGFIELD	COAL	4.5	1082.0
-580.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1142.0
-710.0	CARBONDALE	COLCHESTER	COAL	-	1272.0
-719.0	SPOON	SEELYVILLE	COAL	5.0	1281.0

MAPID: 07901122000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 10E SECTION: 17 QUARTERS/FOOTAGES: SW NW SE
QUADRANGLE: HAZEL DELL LONGITUDE: -88.122975 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.129963 DATE COLLECTED:
SURFACE ELEVATION (FT.): 564.0 LOGGED (FT.): 1269.5 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
-116.0	BOND	CARTHAGE	LIMESTONE	6.0	680.0
-426.0	CARBONDALE	DANVILLE	COAL	3.0	990.0
-456.0	CARBONDALE	HERRIN	COAL	4.0	1020.0
-496.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1060.0
-555.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1119.0
-691.0	CARBONDALE	COLCHESTER	COAL	-	1255.0
-700.0	SPOON	SEELYVILLE	COAL	5.5	1264.0

MAPID: 07901008000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 10E SECTION: 19 QUARTERS/FOOTAGES: SW NW SW
QUADRANGLE: ROSE HILL LONGITUDE: -88.152349 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.116477 DATE COLLECTED:
SURFACE ELEVATION (FT.): 566.0 LOGGED (FT.): 1344.0 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	BOND	CARTHAGE	LIMESTONE	7.0	716.0
-484.0	CARBONDALE	DANVILLE	COAL	3.5	1050.0
-518.0	CARBONDALE	HERRIN	COAL	5.0	1084.0
-552.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1118.0
-620.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1186.0
-759.0	CARBONDALE	COLCHESTER	COAL	-	1325.0
-773.0	SPOON	SEELYVILLE	COAL	5.0	1339.0

MAPID: 07901877000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 10E SECTION: 20 QUARTERS/FOOTAGES: NW SW NE
QUADRANGLE: YALE LONGITUDE: -88.122771 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.120761 DATE COLLECTED:
SURFACE ELEVATION (FT.): 540.0 LOGGED (FT.): 1230.0 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
-293.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	833.0
-436.0	CARBONDALE	DANVILLE	COAL	2.0	976.0
-470.0	CARBONDALE	HERRIN	COAL	-	1010.0
-503.0	CARBONDALE	SPRINGFIELD	COAL	3.0	1043.0
-568.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1108.0
-690.0	CARBONDALE	COLCHESTER	COAL	-	1230.0

MAPID: 07901878000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 10E SECTION: 20 QUARTERS/FOOTAGES: NE NE NW
QUADRANGLE: ROSE HILL LONGITUDE: -88.125189 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.124407 DATE COLLECTED:
SURFACE ELEVATION (FT.): 565.0 LOGGED (FT.): 1272.0 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
-286.0	MODESTO	WEST FRANKLIN	LIMESTONE	24.0	851.0
-428.0	CARBONDALE	DANVILLE	COAL	3.0	993.0
-460.0	CARBONDALE	HERRIN	COAL	4.0	1025.0
-495.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1060.0
-555.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1120.0
-688.0	CARBONDALE	COLCHESTER	COAL	-	1253.0
-701.0	SPOON	SEELYVILLE	COAL	6.0	1266.0

MAPID: 07922863000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 8N 10E SECTION: 24 QUARTERS/FOOTAGES: 1598' S line, 2560' W line of SW

QUADRANGLE: YALE LONGITUDE: -88.048921 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.116439 DATE COLLECTED: 12 / 1 / 1978

SURFACE ELEVATION (FT.): 541.0 LOGGED (FT.): 924.0 LOG TYPE: Multiple log types

SOURCE: COASTAL STATES ILJC-78-19 WELL TYPE: Coal Test

COMMENT: GAMMA, DENS, NEUTRON, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
541.0			UNCONSOLIDATED	92.0	0.0	
449.0	MATTOON		SAND	8.0	92.0	
441.0	MATTOON		UNCLASSIFIED	25.0	100.0	
416.0	MATTOON		SILTSTONE	5.0	125.0	
411.0	MATTOON		SANDSTONE	54.0	130.0	
357.0	MATTOON		LIMESTONE	3.0	184.0	
354.0	MATTOON		SANDSTONE	111.0	187.0	
243.0	MATTOON		LIMESTONE	8.0	298.0	
235.0	MATTOON		GRAY SHALE	29.0	306.0	
206.0	MATTOON		SILTSTONE	49.0	335.0	
157.0	BOND	MILLERSVILLE	LIMESTONE	2.0	384.0	OFF GAMMA LOG
155.0	BOND	MILLERSVILLE	SHALE	2.0	386.0	OFF GAMMA LOG
153.0	BOND	MILLERSVILLE	LIMESTONE	9.0	388.0	OFF GAMMA LOG
144.0	BOND		SANDSTONE	13.0	397.0	
131.0	BOND		SHALE & SILTSTONE	63.0	410.0	
68.0	BOND		DARK SHALE	3.0	473.0	
65.0	BOND		SHALE & SILTSTONE	35.0	476.0	
30.0	BOND		COAL	2.5	511.0	
27.5	BOND		SILTSTONE & SHALE	11.5	513.5	
16.0	BOND		SANDSTONE	30.0	525.0	
-14.0	BOND	CARTHAGE	LIMESTONE	4.0	555.0	
-18.0	MODESTO		BLACK SHALE	1.0	559.0	OFF GAMMA
-19.0	MODESTO		GRAY SHALE	15.0	560.0	
-34.0	MODESTO		SANDSTONE	40.0	575.0	
-74.0	MODESTO		SHALE & SILTSTONE	23.0	615.0	
-97.0	MODESTO		SILTSTONE	62.0	638.0	
-159.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	700.0	
-163.0	MODESTO		SHALE	2.0	704.0	OFF GAMMA LOG
-165.0	MODESTO	WEST FRANKLIN	LIMESTONE	3.0	706.0	OFF GAMMA LOG
-168.0	MODESTO		SILTSTONE/SANDSTONE	126.0	709.0	LS AT ABOUT 800- 801?
-294.0	MODESTO		GRAY SHALE	17.6	835.0	CORE #1 835-852.62
-311.6	MODESTO		GRAY SHALE	2.1	852.6	CORE #2 852.62-871
-313.7	CARBONDALE	DANVILLE	COAL	3.9	854.7	
-317.6	CARBONDALE		GRAY SHALE	12.4	858.6	
-330.0	CARBONDALE		GRAY SHALE	3.0	871.0	CORE #3 871-890
-333.0	CARBONDALE	CONANT	LIMESTONE	3.2	874.0	UNCERTAIN CORRELATION
-336.2	CARBONDALE		BLACK SHALE	3.4	877.2	
-339.6	CARBONDALE	BRERETON	LIMESTONE	4.1	880.6	ANNA SH. PRESENT ON LOG BUT < 1'

-343.7	CARBONDALE	HERRIN	COAL	5.0	884.7	
-348.6	CARBONDALE		GRAY SHALE	0.4	889.6	
-349.0	CARBONDALE		GRAY SHALE	22.0	890.0	
-371.0	CARBONDALE	BRIAR HILL	COAL	2.0	912.0	OFF GAMMA LOG
-373.0	CARBONDALE		SHALE	2.0	914.0	
-375.0	CARBONDALE	ST. DAVID	LIMESTONE	3.0	916.0	
-378.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	919.0	
-380.0	CARBONDALE	SPRINGFIELD	COAL	3.0	921.0	

MAPID: 07900508000C

VERSION: 1

PROJECT: CGT-ECILL

COUNTY: JASPER

TWP/RNG: 8N 10E

SECTION: 25

QUARTERS/FOOTAGES: NE NW SE

QUADRANGLE: YALE

LONGITUDE: -88.044913

GEOLOGIST: C TREWORYG

CONFIDENTIAL: N

LATITUDE: 39.103858

DATE COLLECTED:

SURFACE ELEVATION (FT.): 516.0

LOGGED (FT.): 1061.0

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	BOND	CARTHAGE	LIMESTONE	4.0	510.0
-142.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	658.0
-298.0	CARBONDALE	DANVILLE	COAL	-	814.0
-327.0	CARBONDALE	HERRIN	COAL	4.0	843.0
-367.0	CARBONDALE	SPRINGFIELD	COAL	4.0	883.0
-427.0	CARBONDALE	HOUCHIN CREEK	COAL	-	943.0
-545.0	CARBONDALE	COLCHESTER	COAL	-	1061.0

MAPID: 07922864000C VERSION: 1

PROJECT: NCRDS88

COUNTY: JASPER TWP/RNG: 8N 10E SECTION: 27 QUARTERS/FOOTAGES: 161' N line, 2556' W line of SW

QUADRANGLE: YALE LONGITUDE: -88.086197 GEOLOGIST: R. SMITH

CONFIDENTIAL: N LATITUDE: 39.103717 DATE COLLECTED: 12 / 1 / 1978

SURFACE ELEVATION (FT.): 552.0 LOGGED (FT.): 1030.0 LOG TYPE: Multiple log types

SOURCE: COASTAL STATES ILJC-78-18 WELL TYPE: Coal Test

COMMENT: GAMMA, DENS, NEUTRON, DRILL LOG & CORE

ELEVATION TOP (FT.)	FORMATION	MEMBER	LITHOLOGY	THICKNESS (FT.)		COMMENT
				UNIT	OVERBURDEN	
552.0			UNCONSOLIDATED	70.0	0.0	
482.0	MATTOON		MUDSTONE	10.0	70.0	
472.0	MATTOON		SILTSTONE	10.0	80.0	
462.0	MATTOON		CLAYSTONE & SILTSTONE	4.0	90.0	
458.0	MATTOON		BLACK SHALE	2.0	94.0	OFF GAMMA LOG
456.0	MATTOON		CLAYSTONE & SILTSTONE	34.0	96.0	
422.0	MATTOON		SILTSTONE/SANDSTONE	30.0	130.0	
392.0	MATTOON		SILTSTONE	30.0	160.0	
362.0	MATTOON		SANDSTONE	55.0	190.0	
307.0	MATTOON		SILTY SHALE	35.0	245.0	
272.0	MATTOON		SILTSTONE	27.0	280.0	
245.0	MATTOON		LIMESTONE W/ COAL	3.0	307.0	
242.0	MATTOON		SANDSTONE	20.0	310.0	
222.0	MATTOON		UNKNOWN	20.0	330.0	(SAND AND MUD?)
202.0	MATTOON		SILTY SHALE	10.0	350.0	
192.0	MATTOON		SILTSTONE & SHALE	30.0	360.0	
162.0	MATTOON		BLACK SHALE	10.0	390.0	
152.0	MATTOON		GRAY SHALE	20.0	400.0	
132.0	MATTOON		BLACK SHALE	10.0	420.0	
122.0	MATTOON		GRAY SHALE	20.0	430.0	
102.0	MATTOON		SILTSTONE	14.0	450.0	
88.0	BOND	MILLERSVILLE	LIMESTONE	12.0	464.0	
76.0	BOND		SILTSTONE	34.0	476.0	
42.0	BOND		GRAY SHALE	50.0	510.0	
-8.0	BOND		SHALE & SILTSTONE	10.0	560.0	
-18.0	BOND		SILTY SHALE	18.0	570.0	
-36.0	BOND		COAL	2.0	588.0	OFF GAMMA LOG
-38.0	BOND		SILTSTONE	37.0	590.0	OFF GAMMA LOG
-75.0	BOND	CARTHAGE	LIMESTONE	4.0	627.0	OFF GAMMA LOG
-79.0	BOND		BLACK SHALE	2.0	631.0	OFF GAMMA LOG
-81.0	BOND		SILTSTONE	47.0	633.0	
-128.0	BOND		GRAY SHALE	9.0	680.0	
-137.0	MODESTO	CHAPEL	BLACK SHALE	3.0	689.0	OFF GAMMA LOG
-140.0	MODESTO		GRAY SHALE	8.0	692.0	
-148.0	MODESTO		GRAY SHALE	40.0	700.0	
-188.0	MODESTO		SILTSTONE	10.0	740.0	
-198.0	MODESTO		BLACK SHALE	5.0	750.0	
-203.0	MODESTO		SILTSTONE	5.0	755.0	

-208.0	MODESTO		GRAY SHALE	22.0	760.0	
-230.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	782.0	
-234.0	MODESTO	WEST FRANKLIN	GRAY SHALE	4.0	786.0	
-238.0	MODESTO	WEST FRANKLIN	LIMESTONE	4.0	790.0	
-242.0	MODESTO		GRAY SHALE	6.0	794.0	
-248.0	MODESTO		SILTSTONE	10.0	800.0	
-258.0	MODESTO		SILTY SHALE	10.0	810.0	
-268.0	MODESTO		GRAY & BLACK SHALE	10.0	820.0	
-278.0	MODESTO		SILTY SHALE	112.0	830.0	SLTST IN PART 880-910
-390.0	CARBONDALE	DANVILLE	COAL	3.0	942.0	
-393.0	CARBONDALE		SHALE	7.0	945.0	
-400.0	CARBONDALE		SHALE	6.1	952.0	CORE #1 952-972
-406.1	CARBONDALE		CALCAREOUS SHALE	2.4	958.1	
-408.5	CARBONDALE	CONANT	LIMESTONE	1.1	960.5	UNCERTAIN CORRELATION
-409.6	CARBONDALE		GRAY SHALE	2.9	961.6	MINOR LS
-412.4	CARBONDALE	JAMESTOWN	COAL	1.2	964.4	
-413.6	CARBONDALE		GRAY & BLACK SHALE	3.2	965.6	
-416.8	CARBONDALE	BRERETON	LIMESTONE	3.3	968.8	
-420.0	CARBONDALE	BRERETON	LIMESTONE	2.5	972.0	CORE #2 972-981.5
-422.5	CARBONDALE	ANNA	GRAY SHALE	1.0	974.5	
-423.5	CARBONDALE	HERRIN	COAL	4.5	975.5	
-428.0	CARBONDALE		NO RECORD	0.6	980.0	NO RECOVERY; CORE LOSS
-428.6	CARBONDALE		SILTY SHALE	0.7	980.6	
-429.3	CARBONDALE		CLAYSTONE & SILTSTONE	0.3	981.3	
-429.5	CARBONDALE		CLAYSTONE & SILTSTONE	6.2	981.5	CORE #3 981.5-999
-435.7	CARBONDALE		SANDSTONE	11.3	987.7	
-447.0	CARBONDALE		SHALE	2.0	999.0	OFF GAMMA LOG
-449.0	CARBONDALE	ST. DAVID	LIMESTONE	5.0	1001.0	OFF GAMMA LOG
-454.0	CARBONDALE	TURNER MINE	BLACK SHALE	2.0	1006.0	OFF GAMMA LOG
-456.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1008.0	OFF GAMMA LOG
-460.0	CARBONDALE		GRAY SHALE	18.0	1012.0	

MAPID: 07901365000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 10E SECTION: 28 QUARTERS/FOOTAGES: NE NW SE
QUADRANGLE: YALE LONGITUDE: -88.101127 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.102955 DATE COLLECTED:
SURFACE ELEVATION (FT.): 561.0 LOGGED (FT.): 1247.0 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	BOND	CARTHAGE	LIMESTONE	5.0	664.0
-249.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	810.0
-409.0	CARBONDALE	DANVILLE	COAL	2.5	970.0
-441.0	CARBONDALE	HERRIN	COAL	4.0	1002.0
-472.0	CARBONDALE	SPRINGFIELD	COAL	4.0	1033.0
-532.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1093.0
-661.0	CARBONDALE	COLCHESTER	COAL	-	1222.0
-681.0	SPOON	SEELYVILLE	COAL	5.0	1242.0

MAPID: 07900833000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 10E SECTION: 29 QUARTERS/FOOTAGES: NE NE SW
QUADRANGLE: YALE LONGITUDE: -88.124703 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.102496 DATE COLLECTED:
SURFACE ELEVATION (FT.): 561.0 LOGGED (FT.): 1280.0 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
-450.0	CARBONDALE	DANVILLE	COAL	2.5	1011.0
-483.0	CARBONDALE	HERRIN	COAL	-	1044.0
-513.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1074.0
-579.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1140.0
-719.0	CARBONDALE	COLCHESTER	COAL	-	1280.0

MAPID: 07900331000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 10E SECTION: 31 QUARTERS/FOOTAGES: 330' S line, 430' W line
QUADRANGLE: ROSE HILL LONGITUDE: -88.15138 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.083824 DATE COLLECTED:
SURFACE ELEVATION (FT.): 563.0 LOGGED (FT.): 1335.0 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
-353.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	916.0
-497.0	CARBONDALE	DANVILLE	COAL	3.5	1060.0
-532.0	CARBONDALE	HERRIN	COAL	4.0	1095.0
-567.0	CARBONDALE	SPRINGFIELD	COAL	3.5	1130.0
-637.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1200.0
-772.0	CARBONDALE	COLCHESTER	COAL	-	1335.0

MAPID: 07900188000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 10E SECTION: 33 QUARTERS/FOOTAGES: 660' N line, 330' E line of NW NW
QUADRANGLE: YALE LONGITUDE: -88.110303 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.094542 DATE COLLECTED:
SURFACE ELEVATION (FT.): 563.0 LOGGED (FT.): 1269.0 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	BOND	CARTHAGE	LIMESTONE	7.0	675.0
-269.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	832.0
-431.0	CARBONDALE	DANVILLE	COAL	4.0	994.0
-463.0	CARBONDALE	HERRIN	COAL	-	1026.0
-492.0	CARBONDALE	SPRINGFIELD	COAL	-	1055.0
-553.0	CARBONDALE	HOUCHIN CREEK	COAL	-	1116.0
-689.0	CARBONDALE	COLCHESTER	COAL	-	1252.0
-700.0	SPOON	SEELYVILLE	COAL	6.0	1263.0

MAPID: 07900704000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 14W SECTION: 3 QUARTERS/FOOTAGES: NW SE SW
QUADRANGLE: MORIAH LONGITUDE: -87.963066 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.161685 DATE COLLECTED:
SURFACE ELEVATION (FT.): 520.0 LOGGED (FT.): 560.0 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
308.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	212.0
198.0	CARBONDALE	DANVILLE	COAL	3.5	322.0
169.0	CARBONDALE	HERRIN	COAL	3.5	351.0
122.0	CARBONDALE	SPRINGFIELD	COAL	3.0	398.0
88.0	CARBONDALE	HOUCHIN CREEK	COAL	-	432.0
-10.0	CARBONDALE	COLCHESTER	COAL	-	530.0
-35.0	SPOON	SEELYVILLE	COAL	5.0	555.0

MAPID: 07900190000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 14W SECTION: 4 QUARTERS/FOOTAGES: 1120' S line, 200' W line
QUADRANGLE: MORIAH LONGITUDE: -87.987178 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.161233 DATE COLLECTED:
SURFACE ELEVATION (FT.): 569.0 LOGGED (FT.): 563.0 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
327.0	MODESTO	WEST FRANKLIN	LIMESTONE	11.0	242.0
205.0	CARBONDALE	DANVILLE	COAL	4.0	364.0
182.0	CARBONDALE	HERRIN	COAL	4.0	387.0
132.0	CARBONDALE	SPRINGFIELD	COAL	-	437.0
6.0	CARBONDALE	COLCHESTER	COAL	-	563.0

MAPID: 07900781000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 14W SECTION: 6 QUARTERS/FOOTAGES: NW NW SW
QUADRANGLE: HAZEL DELL LONGITUDE: -88.024735 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.164403 DATE COLLECTED:
SURFACE ELEVATION (FT.): 577.0 LOGGED (FT.): 759.0 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	-	402.0
67.0	CARBONDALE	DANVILLE	COAL	2.0	510.0
35.0	CARBONDALE	HERRIN	COAL	-	542.0
-17.0	CARBONDALE	SPRINGFIELD	COAL	3.0	594.0
-155.0	CARBONDALE	COLCHESTER	COAL	-	732.0
-177.0	SPOON	SEELYVILLE	COAL	5.0	754.0

MAPID: 07900782000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 14W SECTION: 7 QUARTERS/FOOTAGES: NW NE SW
QUADRANGLE: HAZEL DELL LONGITUDE: -88.019682 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.149294 DATE COLLECTED:
SURFACE ELEVATION (FT.): 559.0 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
297.0	BOND	CARTHAGE	LIMESTONE	4.0	262.0
159.0	MODESTO	WEST FRANKLIN	LIMESTONE	8.0	400.0
44.0	CARBONDALE	DANVILLE	COAL	2.0	515.0
13.0	CARBONDALE	HERRIN	COAL	2.0	546.0
-37.0	CARBONDALE	SPRINGFIELD	COAL	3.5	596.0
-71.0	CARBONDALE	HOUCHIN CREEK	COAL	-	630.0
-178.0	CARBONDALE	COLCHESTER	COAL	-	737.0
-208.0	SPOON	SEELYVILLE	COAL	4.0	767.0

MAPID: 07900562000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 14W SECTION: 8 QUARTERS/FOOTAGES: NE NW NW
QUADRANGLE: HAZEL DELL LONGITUDE: -88.003119 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.157034 DATE COLLECTED:
SURFACE ELEVATION (FT.): 564.0 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.)	
				UNIT	OVERBURDEN COMMENT
254.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	310.0
136.0	CARBONDALE	DANVILLE	COAL	2.5	428.0
107.0	CARBONDALE	HERRIN	COAL	2.0	457.0
61.0	CARBONDALE	SPRINGFIELD	COAL	3.0	503.0
34.0	CARBONDALE	HOUCHIN CREEK	COAL	-	530.0
-76.0	CARBONDALE	COLCHESTER	COAL	-	640.0
-110.0	SPOON	SEELYVILLE	COAL	4.0	674.0

MAPID: 07900856000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 14W SECTION: 10 QUARTERS/FOOTAGES: SW SW NE
QUADRANGLE: MORIAH LONGITUDE: -87.958139 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.152302 DATE COLLECTED:
SURFACE ELEVATION (FT.): 512.0 LOGGED (FT.): 582.0 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
262.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	250.0
177.0	CARBONDALE	DANVILLE	COAL	3.0	335.0
146.0	CARBONDALE	HERRIN	COAL	2.0	366.0
100.0	CARBONDALE	SPRINGFIELD	COAL	3.5	412.0
64.0	CARBONDALE	HOUCHIN CREEK	COAL	-	448.0
-33.0	CARBONDALE	COLCHESTER	COAL	-	545.0
-67.0	SPOON	SEELYVILLE	COAL	3.0	579.0

MAPID: 07900219000C VERSION: 1 PROJECT: CONTROL
COUNTY: JASPER TWP/RNG: 8N 14W SECTION: 15 QUARTERS/FOOTAGES: 330' S line, 330' W line of NW
QUADRANGLE: MORIAH LONGITUDE: -87.967136 GEOLOGIST: HINES
CONFIDENTIAL: N LATITUDE: 39.137517 DATE COLLECTED:
SURFACE ELEVATION (FT.): LOGGED (FT.): 692.0 LOG TYPE: Survey Sample Study
SOURCE: HOOKER C E 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: 07904031000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 8N 14W **SECTION:** 16 **QUARTERS/FOOTAGES:** SW SE NW
QUADRANGLE: MORIAH **LONGITUDE:** -87.981319 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.137263 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 548.0 **LOGGED (FT.):** 696.0 **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
193.0	MODESTO	WEST FRANKLIN	LIMESTONE	7.0	355.0
59.0	CARBONDALE	DANVILLE	COAL	2.0	489.0
42.0	CARBONDALE	HERRIN	COAL	-	506.0
-7.0	CARBONDALE	SPRINGFIELD	COAL	-	555.0
-148.0	CARBONDALE	COLCHESTER	COAL	-	696.0

MAPID: 07900765000C **VERSION:** 1 **PROJECT:** CGT-ECILL
COUNTY: JASPER **TWP/RNG:** 8N 14W **SECTION:** 17 **QUARTERS/FOOTAGES:** NE NW NW
QUADRANGLE: HAZEL DELL **LONGITUDE:** -88.002615 **GEOLOGIST:** C TREWORY
CONFIDENTIAL: N **LATITUDE:** 39.142141 **DATE COLLECTED:**
SURFACE ELEVATION (FT.): 549.0 **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	8.0	376.0
42.0	CARBONDALE	DANVILLE	COAL	2.0	507.0
19.0	CARBONDALE	HERRIN	COAL	-	530.0
-26.0	CARBONDALE	SPRINGFIELD	COAL	3.0	575.0
-61.0	CARBONDALE	HOUCHIN CREEK	COAL	-	610.0
-165.0	CARBONDALE	COLCHESTER	COAL	-	714.0
-191.0	SPOON	SEELYVILLE	COAL	2.0	740.0

MAPID: 07900728000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 14W SECTION: 19 QUARTERS/FOOTAGES: 660' N line, 330' W line of SE NE
QUADRANGLE: YALE LONGITUDE: -88.009221 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.122747 DATE COLLECTED:
SURFACE ELEVATION (FT.): 541.0 LOGGED (FT.): 836.5 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
239.0	BOND	CARTHAGE	LIMESTONE	4.0	302.0
93.0	MODESTO	WEST FRANKLIN	LIMESTONE	9.0	448.0
-44.0	CARBONDALE	DANVILLE	COAL	3.5	585.0
-66.0	CARBONDALE	HERRIN	COAL	-	607.0
-111.0	CARBONDALE	SPRINGFIELD	COAL	4.5	652.0
-154.0	CARBONDALE	HOUCHIN CREEK	COAL	-	695.0
-267.0	CARBONDALE	COLCHESTER	COAL	-	808.0
-292.0	SPOON	SEELYVILLE	COAL	3.5	833.0

MAPID: 07900735000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 14W SECTION: 19 QUARTERS/FOOTAGES: NW SE NW
QUADRANGLE: YALE LONGITUDE: -88.018753 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.1232 DATE COLLECTED:
SURFACE ELEVATION (FT.): 459.0 LOGGED (FT.): 913.0 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
78.0	BOND	CARTHAGE	LIMESTONE	4.0	381.0
-65.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	524.0
-208.0	CARBONDALE	DANVILLE	COAL	3.0	667.0
-231.0	CARBONDALE	HERRIN	COAL	-	690.0
-273.0	CARBONDALE	SPRINGFIELD	COAL	4.0	732.0
-316.0	CARBONDALE	HOUCHIN CREEK	COAL	-	775.0
-424.0	CARBONDALE	COLCHESTER	COAL	-	883.0
-449.0	SPOON	SEELYVILLE	COAL	5.0	908.0

MAPID: 07900733000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 14W SECTION: 20 QUARTERS/FOOTAGES: SW SE NW
QUADRANGLE: OBLONG NORTH LONGITUDE: -87.999743 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.122079 DATE COLLECTED:
SURFACE ELEVATION (FT.): 515.0 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
251.0	BOND	CARTHAGE	LIMESTONE	6.0	264.0
104.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	411.0
-35.0	CARBONDALE	DANVILLE	COAL	3.5	550.0
-55.0	CARBONDALE	HERRIN	COAL	-	570.0
-105.0	CARBONDALE	SPRINGFIELD	COAL	2.5	620.0
-143.0	CARBONDALE	HOUCHIN CREEK	COAL	-	658.0
-262.0	CARBONDALE	COLCHESTER	COAL	-	777.0
-289.0	SPOON	SEELYVILLE	COAL	5.0	804.0

MAPID: 07900327000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 14W SECTION: 22 QUARTERS/FOOTAGES: SE NE NE
QUADRANGLE: MORIAH LONGITUDE: -87.950353 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.12682 DATE COLLECTED:
SURFACE ELEVATION (FT.): 536.0 LOGGED (FT.): 662.0 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
254.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	282.0
118.0	CARBONDALE	DANVILLE	COAL	4.0	418.0
86.0	CARBONDALE	HERRIN	COAL	2.0	450.0
38.0	CARBONDALE	SPRINGFIELD	COAL	3.0	498.0
-1.0	CARBONDALE	HOUCHIN CREEK	COAL	-	537.0
-104.0	CARBONDALE	COLCHESTER	COAL	-	640.0
-119.0	SPOON	SEELYVILLE	COAL	7.0	655.0

MAPID: 07900709000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 14W SECTION: 22 QUARTERS/FOOTAGES: SE NE NW
QUADRANGLE: MORIAH LONGITUDE: -87.959775 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.126658 DATE COLLECTED:
SURFACE ELEVATION (FT.): 542.0 LOGGED (FT.): 715.0 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
215.0	MODESTO	WEST FRANKLIN	LIMESTONE	6.0	327.0
82.0	CARBONDALE	DANVILLE	COAL	3.0	460.0
57.0	CARBONDALE	HERRIN	COAL	-	485.0
4.0	CARBONDALE	SPRINGFIELD	COAL	3.0	538.0
-36.0	CARBONDALE	HOUCHIN CREEK	COAL	-	578.0
-143.0	CARBONDALE	COLCHESTER	COAL	-	685.0
-168.0	SPOON	SEELYVILLE	COAL	5.0	710.0

MAPID: 07900567000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 14W SECTION: 28 QUARTERS/FOOTAGES: NW NE NE
QUADRANGLE: OBLONG NORTH LONGITUDE: -87.971175 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.113704 DATE COLLECTED:
SURFACE ELEVATION (FT.): 497.0 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
312.0	BOND	CARTHAGE	LIMESTONE	4.0	185.0
166.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	331.0
33.0	CARBONDALE	DANVILLE	COAL	3.0	464.0
7.0	CARBONDALE	HERRIN	COAL	-	490.0
-41.0	CARBONDALE	SPRINGFIELD	COAL	3.5	538.0
-81.0	CARBONDALE	HOUCHIN CREEK	COAL	-	578.0
-189.0	CARBONDALE	COLCHESTER	COAL	-	686.0
-217.0	SPOON	SEELYVILLE	COAL	5.0	714.0

MAPID: 07900746000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 14W SECTION: 29 QUARTERS/FOOTAGES: SW NE SE
QUADRANGLE: OBLONG NORTH LONGITUDE: -87.989777 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.10394 DATE COLLECTED:
SURFACE ELEVATION (FT.): 502.0 LOGGED (FT.): 830.0 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
225.0	BOND	CARTHAGE	LIMESTONE	5.0	277.0
81.0	MODESTO	WEST FRANKLIN	LIMESTONE	10.0	421.0
-61.0	CARBONDALE	DANVILLE	COAL	3.5	563.0
-88.0	CARBONDALE	HERRIN	COAL	-	590.0
-139.0	CARBONDALE	SPRINGFIELD	COAL	4.0	641.0
-185.0	CARBONDALE	HOUCHIN CREEK	COAL	-	687.0
-303.0	CARBONDALE	COLCHESTER	COAL	-	805.0
-323.0	SPOON	SEELYVILLE	COAL	5.0	825.0

MAPID: 07900561000C VERSION: 1 PROJECT: CGT-ECILL
COUNTY: JASPER TWP/RNG: 8N 14W SECTION: 33 QUARTERS/FOOTAGES: SW SW SE
QUADRANGLE: OBLONG NORTH LONGITUDE: -87.975334 GEOLOGIST: C TREWORY
CONFIDENTIAL: N LATITUDE: 39.084807 DATE COLLECTED:
SURFACE ELEVATION (FT.): 496.0 LOGGED (FT.): 810.0 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
230.0	BOND	CARTHAGE	LIMESTONE	4.0	266.0
85.0	MODESTO	WEST FRANKLIN	LIMESTONE	5.0	411.0
-44.0	CARBONDALE	DANVILLE	COAL	-	540.0
-83.0	CARBONDALE	HERRIN	COAL	3.0	579.0
-130.0	CARBONDALE	SPRINGFIELD	COAL	3.0	626.0
-176.0	CARBONDALE	HOUCHIN CREEK	COAL	-	672.0
-286.0	CARBONDALE	COLCHESTER	COAL	-	782.0
-309.0	SPOON	SEELYVILLE	COAL	5.0	805.0